ORDER No.ACED011043C2

Service Manual

AUTOMOTIVE CONSUMER ELECTRONICS

CN-DV2300N

DVD Mobile Navigation System

SPECIFICATIONS

Specifications*

General	
Power Supply	DC 12V (11V - 16V), Test Voltage 14.4V Negative Ground
Current Consumption	Less than 2.5 A
Reception Frequency	1575.42 MHz
Reception Sensitivity	-130 dBm
Reception Method	Parallel 8 channels
Receiving Code	C/A Code
Channel system	Multichannel
Channels	8
GPS Satellites Received	8 max.
Guide Map	DVD SDAL FORMAT SEAMLESS
Picture Output	RGB: Navigation screen NTSC: 1.0 Vp-p, 75 Ω, RCA pin jack (Navigation Screen)
Dimensions** (W × H × D)	178 × 50 × 170 (mm)
Weight**	2.0 kg
GPS Antenna	
Type	Microstrip Planer
Dimensions** (W × H × D)	42 × 14 × 50 (mm)
Weight**	120 g

Remote Control	
Dimensions (W × H × D)**	**41 × 40 × 155 (mm)**
Weight**	**65 g**
*** Specifications and the design are subject to possible modification without notice due to improvements.** **** Dimensions and Weight shown are approximate.** ● **Above specifications comply with EIA standards.**	

Panasonic

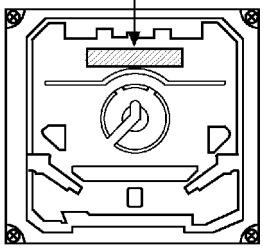
1. LASER PRODUCTS

CAUTION:

This product utilizes a laser diode with the unit turned "on", laser radiation is emitted from the pickup lens.
Laser radiation from the pickup lens is safety level, but be sure the followings:

1. Do not disassemble the optical pickup unit, since radiation from exposed laser diode is dangerous.
2. Do not adjust the variable resistor on the pickup unit. It was already adjusted.
3. Do not look at the focus lens using optical instruments.
4. Recommend not to look at pickup lens for a long time.

DANGER! Invisible laser radiation when open.
Avoid direct exposure to beam.



Deck Ass'y (Upper Side)

Caution
This Product utilizes a laser.
Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

2. FEATURES

The CN-DV2300N DVD Mobile Navigation System combining with latest NAVTECH's MAP Disc has following special features:

- Detailed maps are used. / Selected destinations will be displayed for easy viewing.

- Desired places can be registered. / A destination can be set whenever you like from among the desired places and facilities registered.

3. REPLACEING THE FUSE

Use fuses of the same specified rating (5A). Using different substitutes or fuses with higher ratings, or connecting the unit directly without a fuse, could cause fire or damage to this unit.

4. MAINTENANCE

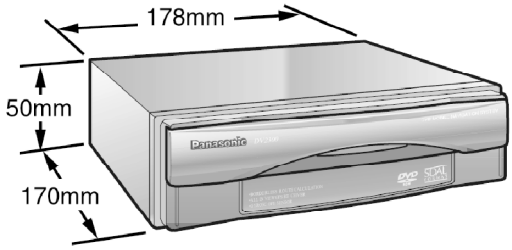
Your products is designed and manufactured to ensure a minimum of maintenance. Use a soft cloth for routine exterior cleaning. Never use benzine, thinner or other solvent.

5. DVD DECK ALIGNMENT

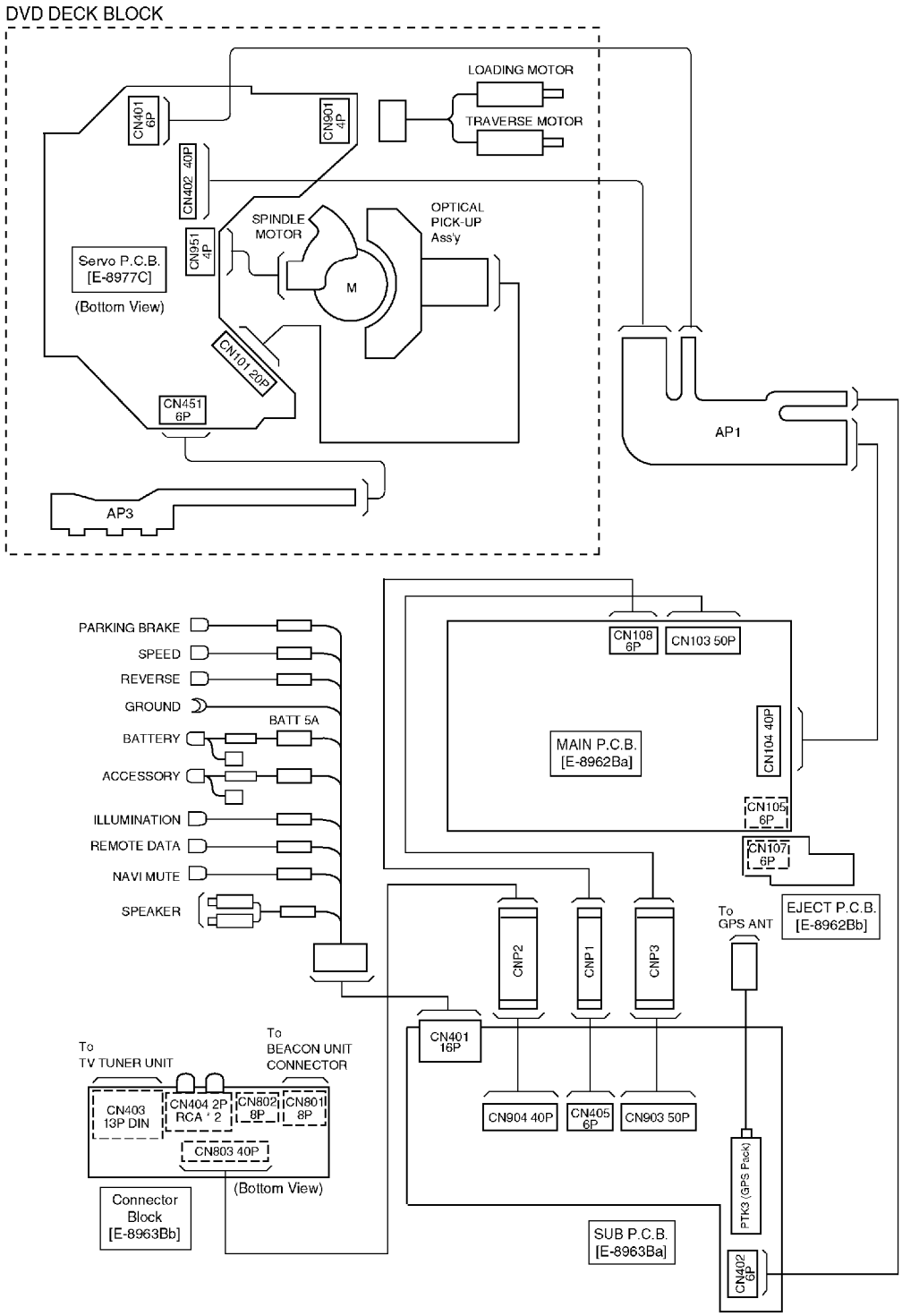
● **DVD Deck Block / This model has no servo alignment points because microcomputer controls**

the servo circuit.

6. DIMENSIONS

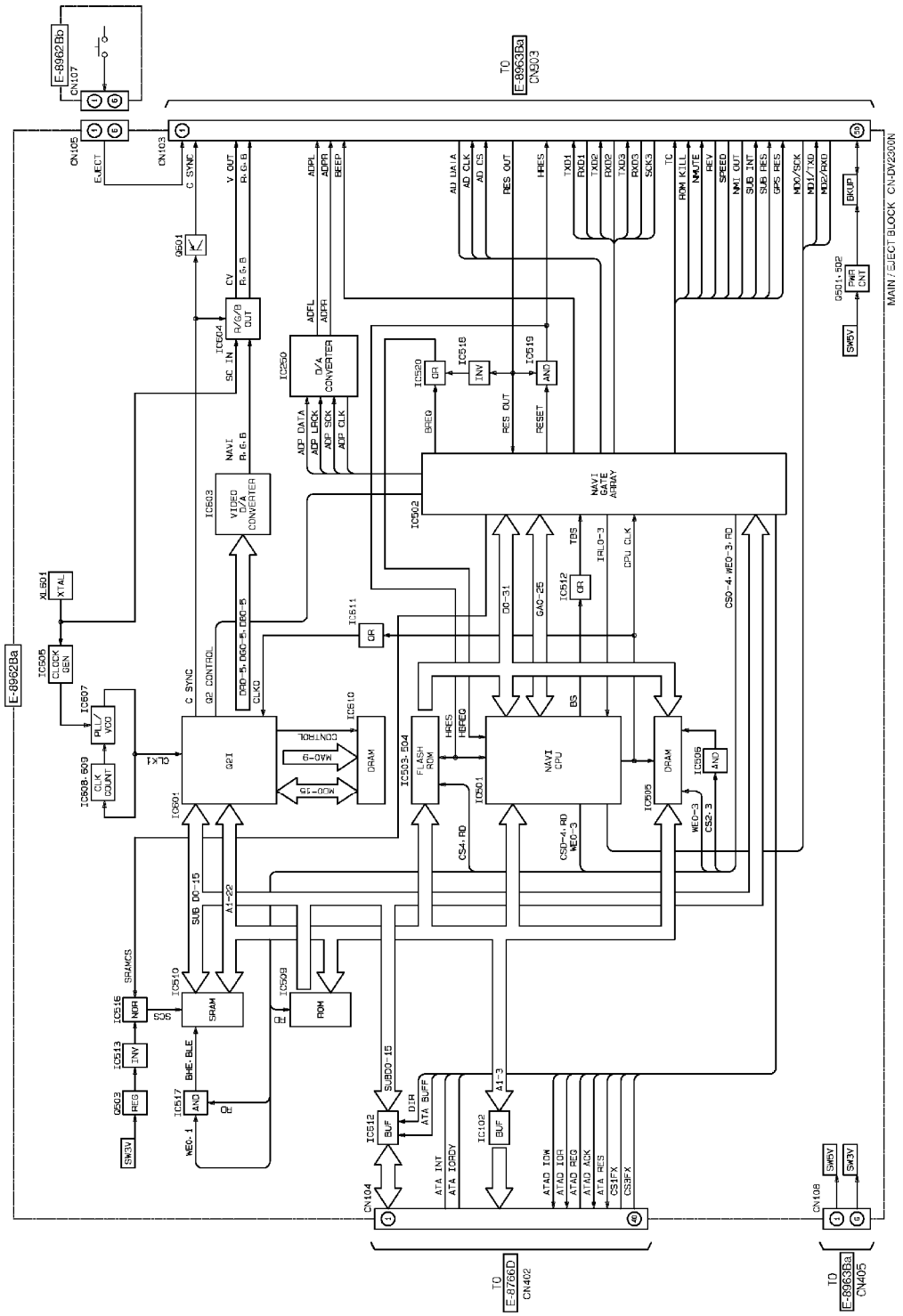


7. WIRING CONNECTION

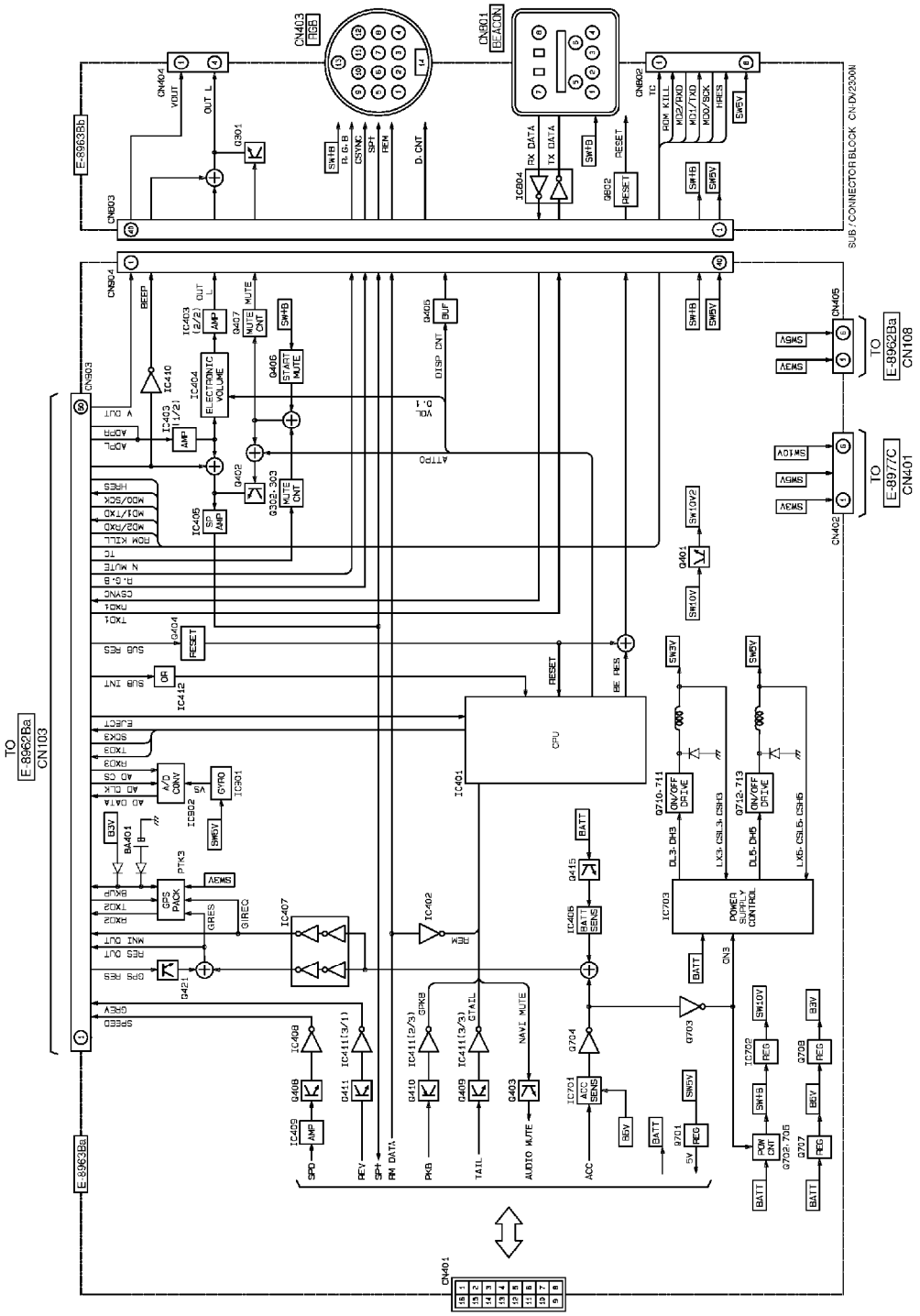


8. BLOCK DIAGRAM

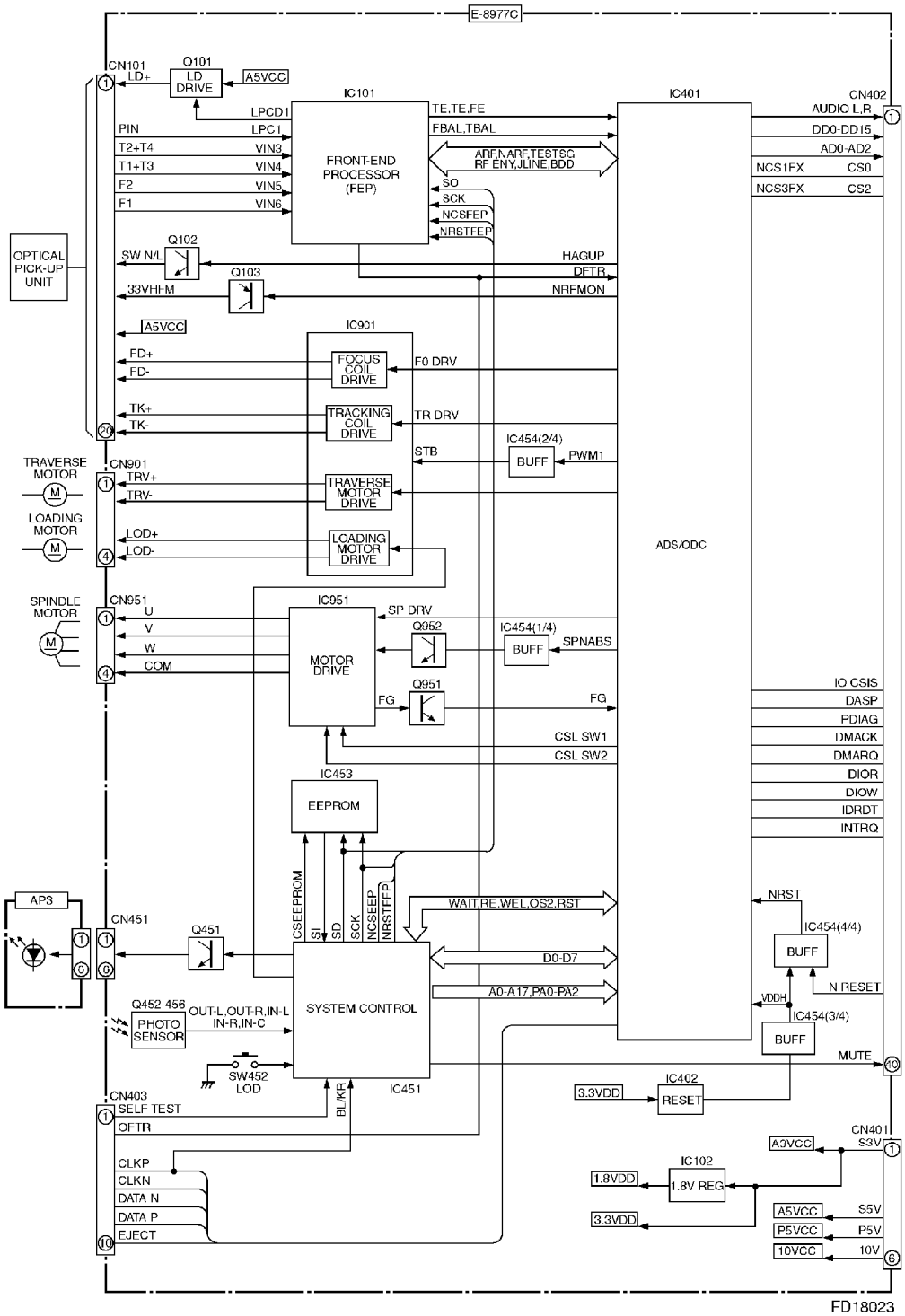
8.1. Main/Eject Block



8.2. Sub/Connector Block



8.3. DVD Servo Block



FD18023

9. TERMINALS DESCRIPTION

9.1. Main Block

IC501 C1EB00000030

Pin No.	Name	Description	I/O	Vol. (V)
1	D27	Data Bus	I/O	0.5
2	D26	Data Bus	I/O	1.8
3	D25	Data Bus	I/O	0.5
4	D24	Data Bus	I/O	0.3
5	D23/P7	Data Bus	I/O	1.8
6	VSS	GND	-	0
7	VCC	+3.3V Power Supply	-	3.5
8	D22/P6	Bata Bus	I/O	0.6
9	D21/P5	Bata Bus	I/O	0
10	D20/P4	Bata Bus	I/O	0
11	D19/P3	Bata Bus	I/O	0
12	D18/P2	Bata Bus	I/O	0
13	D17/P1	Bata Bus	I/O	0.6
14	D16/P0	Bata Bus	I/O	0.5
15	D15	Bata Bus	I/O	0.6
16	D14	Bata Bus	I/O	0.6
17	VSS	GND	-	0
18	VCC	+3.3V Power Supply	-	3.5
19	VSS	GND	-	0
20	VCC	+3.3V Power Supply	-	3.5
21	D13	Data Bus	I/O	0.5
22	D12	Data Bus	I/O	0.7
23	D11	Data Bus	I/O	0.7
24	D10	Data Bus	I/O	0.5
25	D9	Data Bus	I/O	0.7
26	D8	Data Bus	I/O	0.7
27	D7	Data Bus	I/O	0.5
28	D6	Data Bus	I/O	0.6
29	D5	Data Bus	I/O	0.7
30	VSS	GND	-	0
31	VCC	+3.3V Power Supply	-	3.5
32	D4	Data Bus	I/O	0.7
33	D3	Data Bus	I/O	2.7
34	D2	Data Bus	I/O	0.8
35	D1	Data Bus	I/O	1.5
36	D0	Data Bus	I/O	2.7
37	A0	Address Bus	O	0
38	A1	Address Bus	O	3.3
39	A2	Address Bus	O	0.5
40	A3	Address Bus	O	3.3
41	VSS	GND	-	0
42	VCC	+3.3V Power Supply	-	3.5
43	A4	Address Bus	O	0.4
44	A5	Address Bus	O	3.3

Pin No.	Name	Description	I/O	Vol. (V)
45	A6	Address Bus	O	0.7
46	A7	Address Bus	O	0.4
47	A8	Address Bus	O	0.5
48	A9	Address Bus	O	0.5
49	VSS	GND	-	0
50	VCC	+3.3V Power Supply	-	3.5
51	A10	Address Bus	O	0.5
52	A11	Address Bus	O	0.3
53	A12	Address Bus	O	0.6
54	VSS	GND	-	0
55	VCC	+3.3V Power Supply	-	3.5
56	A13	Address Bus	O	0
57	A14	Address Bus	O	0.3
58	A15	Address Bus	O	0
59	VSS	GND	-	0
60	VCC	+3.3V Power Supply	-	3.5
61	A16	Address Bus	O	0.8
62	A17	Address Bus	O	0
63	A18	Address Bus	O	0
64	A19	Address Bus	O	0.3
65	A20	Address Bus	O	0.7
66	A21	Address Bus	O	0
67	A22	Address Bus	O	0
68	VSS	GND	-	0
69	VCC	+3.3V Power Supply	-	3.5
70	A23	Address Bus	O	0
71	A24	Address Bus	O	0
72	A25	Address Bus	O	0
73	VSS(PLL1)	GND for PLL1	-	0
74	CAP1	Capacitor Connecting Terminal	O	1.7
75	VCC(PLL1)	+3.3V Power Supply for PLL1	-	3.5
76	VSS(PLL2)	GND for PLL2	-	0
77	CAP2	Capacitor Connecting Terminal	O	1.1
78	VCC(PLL2)	+3.3V Power Supply for PLL2	-	3.5
79	EXTAL	Crystal Oscillator	I	1.6
80	XTAL	Crystal Oscillator	O	1.6
81	VCC	+3.3V Power Supply	-	3.5
82	VSS	GND	-	0
83	VCC	+3.3V Power Supply	-	3.5
84	MD2/RXD	SIO Serial Input	I	0
85	MD1/TXD	SIO Serial Output	O	0.3

Pin No.	Name	Description	I/O	Vol. (V)
86	MD0/SCK	SIO Serial Clock	I	0
87	BREQ	Bus Request	I	3.5
88	RESET	Reset Input	I	3.5
89	NMI	NMI Request	I	0.3
90	IRL3	Interrupt Request	I	0
91	IRL2	Interrupt Request	I	3.5
92	IRL1	Interrupt Request	I	3.5
93	IRL0	Interrupt Request	I	3.5
94	IOIS16(NC)	-	-	-
95	IRQOUT	Interrupt Request Flag Output	O	3.4
96	BACK	Bus Acknowlegement	O	3.5
97	STATUS1 (NC)	-	-	-
98	STATUS0 (NC)	-	-	-
99	NC	-	-	-
100	VSS	GND	-	0
101	CKIO	Sync Clock Output	O	1.6
102	VCC	+3.3V Power Supply	-	3.5
103	MD4/CE2B	CSO Bus Width Designation	I	3.5
104	MD3/CE2A	CSO Bus Width Designation	I	0
105	BS	Bus Cycle Start Flag Output	O	3.4
106	RD/WR	Read/Write Signal Output	O	3.5
107	RD	Read Signal Output	O	3.3
108	CS6/CE1B (NC)	-	-	-
109	CS5/CE1A (NC)	-	-	-
110	CS4	CS4 Area Access Output	O	3.3
111	CS3	CS3 Area Access Output	O	3.5
112	CS2	CS2 Area Access Output	O	3.5
113	CS1	CS1 Area Access Output	O	3.5
114	CS0	CS0 Area Access Output	O	0.5
115	VSS	GND	-	0
116	VCC	+3.3V Power Supply	-	3.5
117	WE3/ DQMUU/ ICIOWR	Write Enable 3 for DRAM	O	3.4
118	WE2/ DQMUL/ ICIORD	Write Enable 2 for DRAM	O	3.5

Pin No.	Name	Description	I/O	Vol. (V)
119	CASHH/ CAS2 H (NC)	-	-	-
120	CASHH/ CAS2 L (NC)	-	-	-
121	VSS	GND	-	o
122	VCC	+3.3V Power Supply	-	3.5
123	WE1/ DQMLU	Byte Access Signal	O	3.4
124	WE0/ DQMLL	Byte Access Signal	O	3.4
125	CASLH(NC)	-	-	-
126	CASLL/CAS / OE	Byte Access Signal for DRAM	O	1.7
127	VSS	GND	-	0
128	VCC	+3.3V Power Supply	-	3.5
129	RAS/CE	RAS Designation Signal for DRAM	O	3.5
130	MD5/RAS2	Endian Designation	I	0
131	CKE(NC)	-	-	-
132	WAIT	Bus Wait Input	I	0.5
133	VSS	GND	-	0
134	TCLK	Interrupt Input for RY/BY	I	3.5
135	VCC(RTC1)	+3.3V Power Supply	-	3.5
136	XTAL2(NC)	-	-	-
137	EXTAL2	Crystal Oscillator	I	0
138	VSS(RTC)	GND for RTC	-	0
139	VCC	+3.3V Power Supply	-	3.5
140	D31	Data Bus	I/O	0.5
141	D30	Data Bus	I/O	0.5
142	D29	Data Bus	I/O	0.5
143	D28	Data Bus	I/O	0.5
144	VSS	GND	-	0

IC502 YEAMNVC009

Pin No.	Name	Description	I/O	Vol. (V)
1	VCC3	+3.3V Power Supply	-	3.5
2	CPU CLK	CPU Clock Input	I	1.7
3	WDT KILL (NC)	-	-	-
4	GND	GND	-	0
5	BACK	Bus Acknowledge	I	3.5
6	IRQ OUT	Interrupt Request Flag Input	I	3.5
7	VCC3	+3.3V Power Supply	-	3.5
8	IRL0	Interrupt Request Output	O	3.5
9	IRL1	Interrupt Request Output	O	3.5
10	IRL2	Interrupt Request Output	O	3.5
11	IRL3	Interrupt Request Output	O	3.5
12	GND	GND	-	0
13	NMI	NMI request Output	O	3.5
14	BREQ	Bus Request Output	O	3.5
15	VCC3	+3.3V Power Supply	-	3.5
16	RESET	Reset Output	O	3.5
17	FMINT	FM Interrupt Signal Input	I	3.5
18	GND	GND	-	0
19	FMDO	Serial Data Input	I	5.1
20	FMDI	Serial Data Output	O	0
21	FMCL	Synchro. Clock Output	O	5.1
22	FMCE	Control Output for VICS Decoder IC	O	0
23	BEEP	Beep Sound Output	O	0
24	RXD1	Serial Data Input for Beacon Unit	I	5.1
25	TXD1	Serial Data Output for Beacon Unit	O	5.1
26	ROM KILL	ROM Kill	I	0.3
27	VCC5	+5V Power Supply	-	5.1
28	SCK3	Serial Clock Output for Sub CPU	O	5.1
29	RDX3	Serial Data Input for Sub CPU	I	0
30	TXD3	Serial Data Output for Sub CPU	O	0
31	SCK2/ SUB RES	Reset Output for Sub CPU	O	5
32	RXD2	Serial Data Input for GPS	I	1.3
33	TXD2	Serial Data Output for GPS	O	0
34	GND	GND	-	0
35	DSR	Modem Control Signal Input	I	5.1

Pin No.	Name	Description	I/O	Vol. (V)
36	DTA	Modem Control Signal Output	O	5.1
37	CTS	Modem Control Signal Input	I	1.3
38	RTS	Modem Control Signal Output	O	5.1
39	RXD0	Serial Data Input for Modem	I	5.1
40	TXD0	Serial Data Output for Modem	O	5.1
41	FM RES	Reset Output for VICS Decoder IC	O	5.1
42	ATA RES	Deck Reset Output	O	5.1
43	VCC5	+5V Power Supply	-	5.1
44	PORT1/ REV	Back Gear Detection Input	I	0
45	TC	Factory Process Check Mode Input	I	5
46	GND	GND	-	0
47	SPD	Speed Detection Signal Input	I	5.2
48	ADPLRCK	ADP LR Clock Output	O	2.6
49	ADPSCK	ADP Serial Clock Output	O	2.6
50	ADPDATA	ADP Data Output	O	0
51	ADPCLK	ADP Clock Input	I	2.3
52	ADDATA	Data Input for Gyro. A/D Converter	I	2.3
53	ADCLK	Clock Output for Gyro. A/D Converter	O	2.6
54	ADCS	Chip Select for Gyro. A/D Converter	O	0.4
55	EXTINT0	Interrupt Input for RY/BY	I	5.1
56	EXTINT1 (NC)	-	-	-
57	VCC3	+3.3V Power Supply	-	3.5
58	NMI IN	Non Maskable Interrupt Input	I	5.1
59	RESET IN	Reset Input	I	5.1
60	GND	GND	-	0
61	VCC5	+5V Power Supply	-	5.1
62	ATAINT	ATA Interrupt Input	I	0
63	ATADREQ	ATAD Request Signal	I	0
64	GND	GND	-	0
65	ATADACK	ATA DA Clock Output	O	5.1
66	ATAIORDY	ATA I/O Ready Input	I	5.1
67	ATADIOW	ATAD I/O Write Signal Output	O	5.1

Pin No.	Name	Description	I/O	Vol. (V)
68	ATADIOR	ATAD I/O Read Signal Output	O	1.3
69	CS3FX	FX Chip Select 3 Signal Output	O	5.1
70	CS1FX	FX Chip Select 1 Signal Output	O	5.1
71	GND	GND	-	0
72	ATABUFF	ATA Buffer Output	O	3.5
73	DIR	DIR	O	3.5
74	BUFFEN/ PORT31	Smart Media Busy Detection Input	I	3.5
75	VCC3	+3.3V Power Supply	-	3.5
76	LANIRQ	(Connecting to +3.3V Power Supply)	-	3.5
77	LANDACK (NC)	-	-	-
78	GND	GND	-	0
79	LANDREQ	(Connecting to +3.3V Power Supply)	-	3.5
80	LANCS (NC)	-	-	-
81	SUBD15	Sub CPU Data Bus 15	I/O	3.5
82	SUBD14	Sub CPU Data Bus 14	I/O	3.5
83	SUBD13	Sub CPU Data Bus 13	I/O	3.5
84	VCC3	+3.3V Power Supply	-	3.5
85	SUBD12	Sub CPU Data Bus 12	I/O	3.5
86	SUBD11	Sub CPU Data Bus 11	I/O	3.5
87	SUBD10	Sub CPU Data Bus 10	I/O	3.3
88	SUBD9	Sub CPU Data Bus 9	I/O	3.3
89	VCC3	+3.3V Power Supply	-	3.5
90	SUBD8	Sub CPU Data Bus 8	I/O	3.3
91	SUBD7	Sub CPU Data Bus 7	I/O	3.1
92	GND	GND	-	0
93	SUBD6	Sub CPU Data Bus 6	I/O	3.4
94	SUBD5	Sub CPU Data Bus 5	I/O	3.4
95	SUBD4	Sub CPU Data Bus 4	I/O	3.4
96	SUBD3	Sub CPU Data Bus 3	I/O	3.4
97	GND	GND	-	0
98	SUBD2	Sub CPU Data Bus 2	I/O	3.3
99	SUBD1	Sub CPU Data Bus 1	I/O	3.4
100	SUBD0	Sub CPU Data Bus 0	I/O	3.4
101	AUXCS1	AUX CS1 Output	O	3.5
102	AUXCS0	AUX CS0 Output	O	3.5
103	VCC3	+3.3V Power Supply	-	3.5
104	SUBWR1	Sub CPU WR1	O	3.5

Pin No.	Name	Description	I/O	Vol. (V)
105	SUBWR0	Sub CPU WR0	O	3.5
106	GND	GND	-	0
107	SUBRD	Sub CPU RD	O	3.5
108	CLKOUT (NC)	-	-	-
109	GND	GND	-	0
110	POBF/ RICINT	-	I	0
111	PIBE/ RICMCS	Voice Recognition Buffer Empty Input	I	3.5
112	GIO/ RICIOCS	Voice Recognition Forced Close Output	O	3.5
113	GO1/ RICRDY	Voice Recognition Flag Input	I	3.5
114	DSP RES/ RICBHE	Voice Recognition Reset Output	O	3.5
115	Q2IRQ	Q2 Interrupt Request Input	I	3.5
116	Q2DACK	Q2 D Acknowledge Output	O	3.5
117	VCC3	+3.3V Power Supply	-	3.5
118	Q2DREQ	Q2 D Request Input	I	3.5
119	Q2WAIT	Q2 Wait Input	I	3.5
120	GND	GND	-	0
121	VCC3	+3.3V Power Supply	-	3.5
122	Q2CS1	Q2 CS1 Input	I	3.5
123	Q2CS0	Q2 CS0 Input	I	3.5
124	GND	GND	-	0
125	MASKCS	Mask Chip Select Input	I	3.4
126	SRAMCS	SRAM Chip Select Input	I	3.4
127	EXTWAIT (NC)	-	-	-
128	MAUX (NC)	-	-	-
129	GND	GND	-	0
130	SUBINT	Bus Request Interrupt for Sub CPU	O	3.5
131	BLOCK	Block Sync. Detection Input	I	0
132	GPS RES	GPS Reset Output	O	0
133	PORT4	Audio Mute Control Output	O	3.5
134	A25	Address Data 25	I	0
135	VCC3	+3.3V Power Supply	-	3.5
136	A24	Address Data 24	I	0
137	A23	Address Data 23	I	0
138	GND	GND	-	0
139	A22	Address Data 22	I	0
140	A21	Address Data 21	I	0

Pin No.	Name	Description	I/O	Vol. (V)
141	A20	Address Data 20	I	0
142	A19	Address Data 19	I	0.3
143	A18	Address Data 18	I	0.3
144	VCC3	+3.3V Power Supply	-	3.5
145	A12	Address Data 12	I	0.3
146	A11	Address Data 11	I	0.3
147	A10	Address Data 10	I	1.5
148	A9	Address Data 9	I	0.3
149	GND	GND	-	0
150	A8	Address Data 8	I	3
151	A7	Address Data 7	I	0.3
152	A6	Address Data 6	I	0.3
153	A5	Address Data 5	I	3.2
154	VCC3	+3.3V Power Supply	-	3.5
155	A4	Address Data 4	I	0.3
156	A3	Address Data 3	I	3.3
157	A2	Address Data 2	I	0.3
158	A1	Address Data 1	I	3.2
159	A0	Address Data 0	I	0
160	GND	GND	-	0
161	T	(Connecting to +3.3V Power Supply)	-	3.5
162	W	(Connecting to +3.3V Power Supply)	-	3.5
163	VCC3	+3.3V Power Supply	-	3.5
164	TEST	(Connecting to +3.3V Power Supply)	-	3.5
165	Do	Data Bus 0	I/O	2.6
166	GND	GND	-	0
167	D1	Data Bus 1	I/O	0.8
168	D2	Data Bus 2	I/O	0.8
169	D3	Data Bus 3	I/O	2.7
170	VCC3	+3.3V Power Supply	-	3.5
171	D4	Data Bus 4	I/O	0.8
172	D5	Data Bus 5	I/O	0.8
173	GND	GND	-	0
174	D6	Data Bus 6	I/O	0.6
175	D7	Data Bus 7	I/O	0.6
176	D8	Data Bus 8	I/O	0.8
177	VCC3	+3.3V Power Supply	-	3.5
178	D9	Data Bus 9	I/O	0.8
179	D10	Data Bus 10	I/O	0.6
180	GND	GND	-	0
181	VCC3	+3.3V Power Supply	-	3.5
182	D11	Data Bus 11	I/O	0.8

Pin No.	Name	Description	I/O	Vol. (V)
183	D12	Data Bus 12	I/O	0.8
184	GND	GND	-	0
185	D13	Data Bus 13	I/O	0.7
186	D14	Data Bus 14	I/O	0.8
187	D15	Data Bus 15	I/O	0.8
188	D16	Data Bus 16	I/O	0.8
189	GND	GND	-	0
190	D17	Data Bus 17	I/O	0.8
191	D18	Data Bus 18	I/O	2
192	D19	Data Bus 19	I/O	0.7
193	D20	Data Bus 20	I/O	2
194	D21	Data Bus 21	I/O	0.8
195	VCC3	+3.3V Power Supply	-	3.5
196	D22	Data Bus 22	I/O	0.7
197	D23	Data Bus 23	I/O	1.5
198	GND	GND	-	0
199	D24	Data Bus 24	I/O	0.8
200	D25	Data Bus 25	I/O	0.7
201	D26	Data Bus 26	I/O	2
202	D27	Data Bus 27	I/O	0.7
203	VCC3	+3.3V Power Supply	-	3.5
204	D28	Data Bus 28	I/O	1.5
205	D29	Data Bus 29	I/O	0.7
206	D30	Data Bus 30	I/O	0.7
207	D31	Data Bus 31	I/O	0.7
208	DRAMWE9 (NC)	-	-	-
209	VCC3	+3.3V Power Supply	-	3.5
210	DRAMWE1 (NC)	-	-	-
211	DRAMWE2	DRAM Write Enable 2	O	1.5
212	GND	GND	-	0
213	DRANOE0	DRAM Output Enable 0	O	3.5
214	DRAMOE1 (NC)	-	-	-
215	DRAMOE2 (NC)	-	-	-
216	GND	GND	-	0
217	FLCS1 (NC)	-	-	-
218	FLCS0 (NC)	-	-	-
219	WAIT	Bus Wait Signal Input	O	0.7
220	GND	GND	-	0

Pin No.	Name	Description	I/O	Vol. (V)
221	RAS	DRAM RS Designation Signal Output	O	3.5
222	CASLL	Byte Access Signal for DRAM	O	1.3
223	VCC3	+3.3V Power Supply	-	3.5
224	CASLH	Byte Access Signal for DRAM	O	0.3
225	WE0	Byte Access Signal	O	3.4
226	GND	GND	-	0
227	WE1	Byte Access Signal	O	3.4
228	CASHL	Byte Access Signal for DRAM	O	3.4
229	CASHH	Byte Access Signal for DRAM	O	3.4
230	CS0	CS0 Area Access Input	I	3.4
231	CS1	CS1 Area Access Input	I	3.4
232	CS2	CS2 Area Access Input	I	0.8
233	CS3	CS3 Area Access Input	I	0.8
234	GND	GND	-	0
235	CS4	CS4 Area Access Input	I	3.5
236	RD	Read Signal Input	I	3.4
237	VCC3	+3.3V Power Supply	-	3.5
238	RD/WR	Read/Write Signal Input	I	3.5
239	BS	Bus Cycle Start Flag Input	I	1.5
240	GND	GND	-	0

9.2. Sub Block

IC401 C2BBED000001

Pin No.	Name	Description	I/O	Vol. (V)
1	NC	(Conecting to ground)	-	0
2	PLL A (NC)	-	-	-
3	PLL B (NC)	-	-	-
4	PLL C (NC)	-	-	-
5	PLL D (NC)	-	-	-
6	TAIL	Illumination signal	I	0
7	NC	-	-	-
8	PKB	Parking brake signal	I	0
9	VSS	(Conecting to ground)	-	0
10	INIITA	initialize A	I	0
11	RI	Modem receive signal detection	I	5
12	N0M RES	(Conecting to ground)	-	0
13	N0M VUP	(Conecting to ground)	-	0
14	DCD	mModem carry signal detection	I	5
15	NC	(Conecting to ground)	-	0
16	NC	(Conecting to ground)	-	0
17	SD (NC)	-	-	-
18	ATT L (NC)	-	-	-
19	ATT R (NC)	-	-	-
20	ATTP0	Mute signal (for Power Amp.)	O	0
21	EJECT IN	EJECT switch detection	I	5
22	WP (NC)	-	-	-
23	CFPON (NC)	-	-	-
24	VSS	(Conecting to ground)	-	0
25	SMEN (NC)	-	-	-
26	ACC VOUT	ACC control output	O	5
27	VOL0	Volume control 0	O	9.3
28	VOL1	Volume control 1	O	9.3
29	VOL2 (NC)	-	-	-
30	BE RES	Becon Unit reset	O	5
31	NAVI MUTE	Navi mute signal	O	0

Pin No.	Name	Description	I/O	Vol. (V)
32	NC	(Conecting to ground)	-	0
33	DISP CONT(NC)	-	-	-
34	NC	(Conecting to ground)	-	0
35	RESET	Reset	I	5
36	REM IN	Remocon data input	I	0
37	NC	(Conecting to ground)	-	0
38	ACC VIN	ACC detection	I	5
39	SUB INT	Sub DPU interrupt	I	5
40	VDD	+5V power supply	-	5
41	X2	Crystal OSC	-	2.9
42	X1	Crystal OSC	-	2.5
43	IC	(Conecting to ground)	-	0
44	XT2 (NC)	-	-	-
45	NC	(Pull down)	-	0
46	AVSS	Ground	-	0
47	S METER	S meter signal input	I	0.4
48	VACC	ACC voltage detection	I	2.6
49	LVD	Low voltage detection	I	0
50	CDET	Card detect signal input	I	3.3
51	CFWP	Write Protect Media	I	0
52	NC	(Conecting to ground)	-	0
53	NC	(Conecting to ground)	-	0
54	NC	(Conecting to ground)	-	0
55	AVDD	+5V power supply	-	5
56	AVREF	A/D reference voltage	-	5
57	TXD0	TX data (for Gate Array)	I	0
58	RXD0	RX data (for Gate Array)	O	0
59	SCK0	Clock (for Gate Array)	I/O	5
60	SIREQ (NC)	-	-	-
61	FM CE	VICS Tuner enable	O	0
62	FM DI (NC)	-	-	-
63	FM DO	VICS Tuner data	O	0
64	FM CL	VICS Tuner clock	O	5

9.3. DVD Servo Block

IC451 MN102H60GAB

Pin No.	Name	Description	I/O	Volt (V)
1	WAIT	CPU Bus Control	I	0
2	/RE	CPU Bus Control	O	1.8
3	/WEL	CPU Bus Control	O	3.2
4	/WEH (NC)	-	-	-
5	/CS0 (NC)	-	-	-
6	/CS1 (NC)	-	-	-
7	/CS2	ODC Chip Select	O	0
8	/CS3 (NC)	-	-	-
9	/BREQ (NC)	-	-	-
10	/BRACK (NC)	-	-	-
11	/BSTRE (NC)	-	-	-
12	/WORD	(Conecting to ground)	-	0
13	A0	CPU Address Bus	O	0.5
14	A1	CPU Address Bus	O	1.8
15	A2	CPU Address Bus	O	1.8
16	A3	CPU Address Bus	O	1.8
17	33VDD	+3.3V Power Supply	-	3.4
18	BOSC (NC)	-	-	-
19	VSS	GND	-	0
20	XI	Drive Tesst Mode	I	3.4
21	XO (NC)	-	-	-
22	33VDD	+3.3V Power Supply	-	3.4
23	OSCI	Clock, 10MHz	I	1.8
24	OSCO (NC)	-	-	-
25	MODE	Mode Selector	I	0
26	A4	CPU Address Bus	O	1.6
27	A5	CPU Address Bus	O	1.9
28	A6	CPU Address Bus	O	1.6
29	A7	CPU Address Bus	O	1.4
30	A8	CPU Address Bus	O	1.8
31	A9	CPU Address Bus	O	1.1
32	A10	CPU Address Bus	O	1.6
33	A11	CPU Address Bus	O	1.1
34	33VDD	+3.3V power Supply	-	3.4
35	A12	CPU Address Bus	O	1.5
36	A13	CPU Address Bus	O	1.5
37	A14	CPU Address Bus	O	1.3
38	A15	CPU Address Bus	O	1.7
39	A16	CPU Address Bus	O	1.8

Pin No.	Name	Description	I/O	Volt (V)
40	A17	CPU Address Bus	O	0.5
41	A18 (NC)	-	-	-
42	A19 (NC)	-	-	-
43	VREFN	VREFN	-	0
44	A20 (NC)	-	-	-
45	A21	Loading Driver Command Value	O	0
46	A22	Photo SW	O	3.3
47	NRSTFEP	FEP/ADSC Reset	O	3.4
48	P80 (NC)	-	-	-
49	P81 (NC)	-	-	-
50	P82 (NC)	-	-	-
51	SBI3	Serial Bus SI Data	I	2.9
52	SBO3 (NC)	-	-	-
53	P85 (NC)	-	-	-
54	VREFP	VREFP	Å\	3.4
55	P86 (NC)	-	-	-
56	P87 (NC)	-	-	-
57	BLKCK	CAV Speed Clock Timer Input	I	0
58	DMUTE	Audio Mute	O	0
59	P92	Photo Enable	O	0
60	P93	LOADING SW	I	0
61	VSS	GND	-	0
62	P94	Photo SW	I	3
63	P95	Photo SW	I	3
64	P96	Photo SW	I	3.1
65	P97	Photo SW	I	3.4
66	33VDD	+3.3V Power Supply	-	3.4
67	CSEEPROM	ADSC Serial Bus Chp Select	O	3.3
68	NCSFEP	FEP Serial Bus Chp Select	O	3.4
69	P72 (NC)	-	-	-
70	SCK	ADSC FEP EEPROM Serial Interface	O	3.4
71	SI	ADSC FEP EEPROM Serial Interface	I	0
72	SO	ADSC FEP EEPROM Serial Interface	O	3.4
73	PULLUP0	Pull-up	I	3.4
74	PULLUP1	Pull-up	I	3.4
75	/NMI	High Fix	I	3.4
76	PA0	ATAPI Interrupt	I	0
77	PA1	ODC Interrupt	I	3.1
78	PA2	ADSC Interrupt	I	3.3

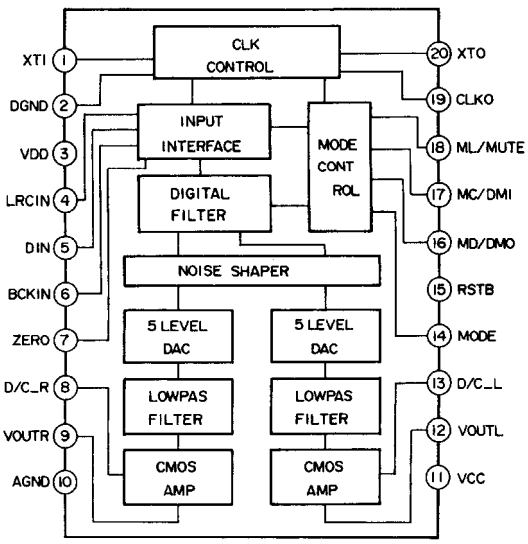
Pin No.	Name	Description	I/O	Volt (V)
79	PA3	MPEG Decoder Interrupt	I	3.4
80	PA4	Power-off Interrupt	I	2.9
81	PA5	High Fix	I	3.4
82	/RST	System Reset	I	3.4
83	33VDD	+3.3V Power Supply	-	3.4
84	D0	CPU Data Bus	I/O	1.2
85	D1	CPU Data Bus	I/O	1
86	D2	CPU Data Bus	I/O	1.3
87	D3	CPU Data Bus	I/O	1.1
88	D4	CPU Data Bus	I/O	1.6
89	D5	CPU Data Bus	I/O	1.6
90	D6	CPU Data Bus	I/O	1.7
91	D7	CPU Data Bus	I/O	1.7
92	VSS	GND	-	0
93	D8 (NC)	-	-	-
94	D9 (NC)	-	-	-
95	D10 (NC)	-	-	-
96	D11 (NC)	-	-	-
97	D12 (NC)	-	-	-
98	D13 (NC)	-	-	-
99	D14 (NC)	-	-	-
100	D15 (NC)	-	-	-

10. PACKAGE AND IC BLOCK DIAGRAM

10.1. Main Block

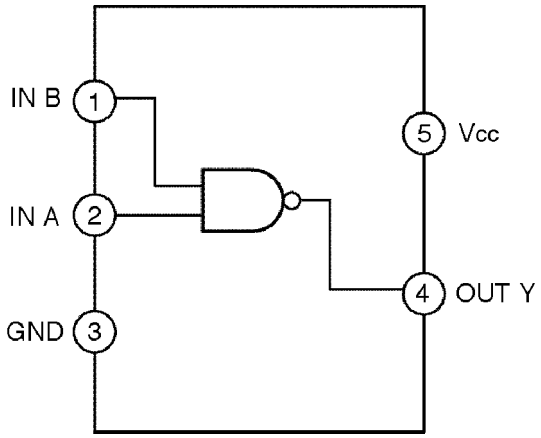
IC102 YEAM74HCT125

IC250 YEAMBBDA1717

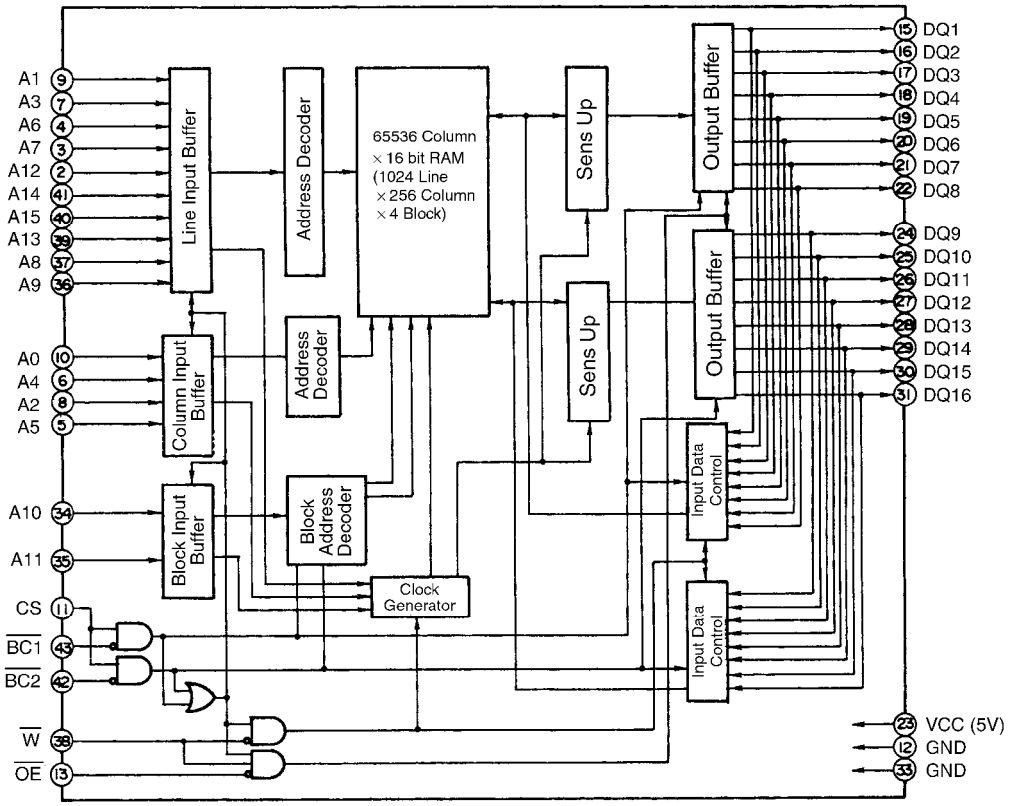


IC503,504 YEAMMB29L16T

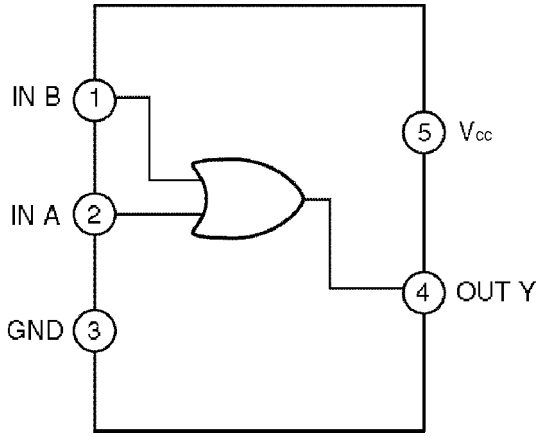
IC506,519 C0JBAA000102



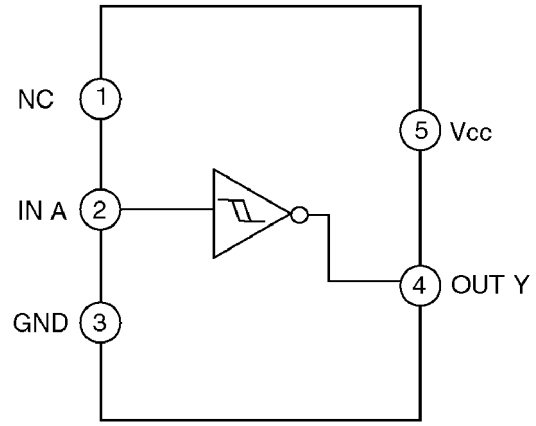
IC510 C3BBHG000054



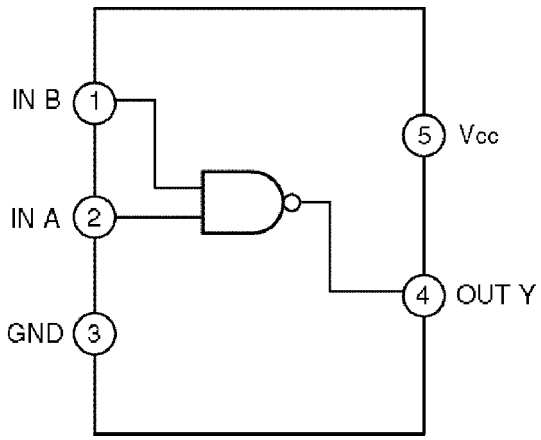
IC512,516,520 YEAMT7SH32UL / IC611 YEAMT7ST32UL



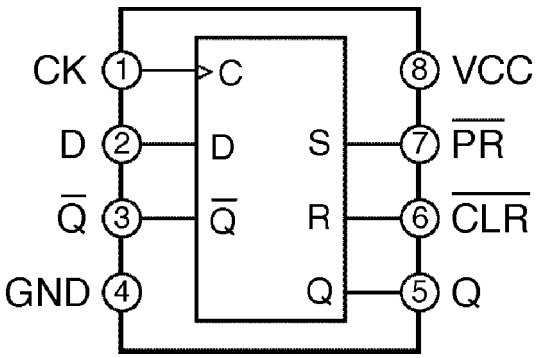
IC513 YEAMT7SH14UL



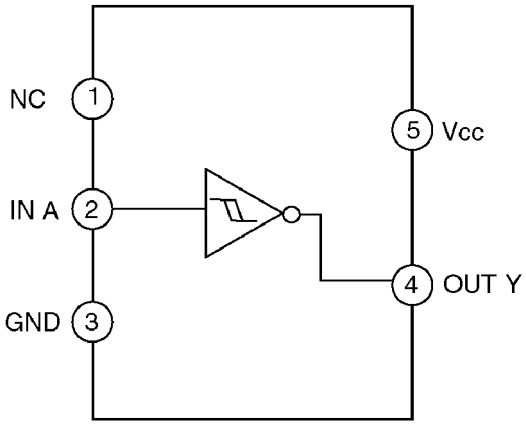
IC518 YEAMT7SH00UL



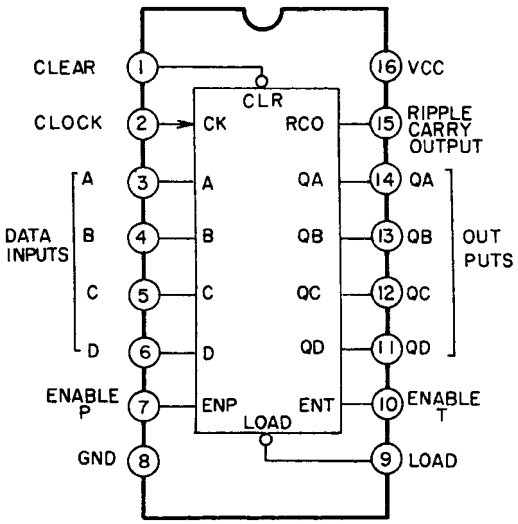
IC605 YEAMTC7W74UL



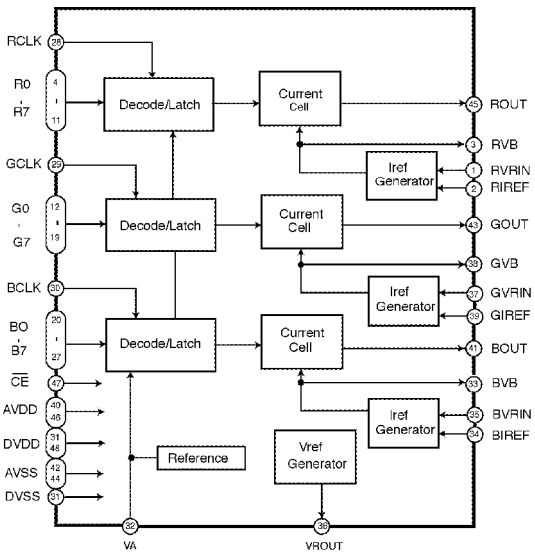
IC608 YEAMT7SH14UL



IC609 YEAMMCHC163F

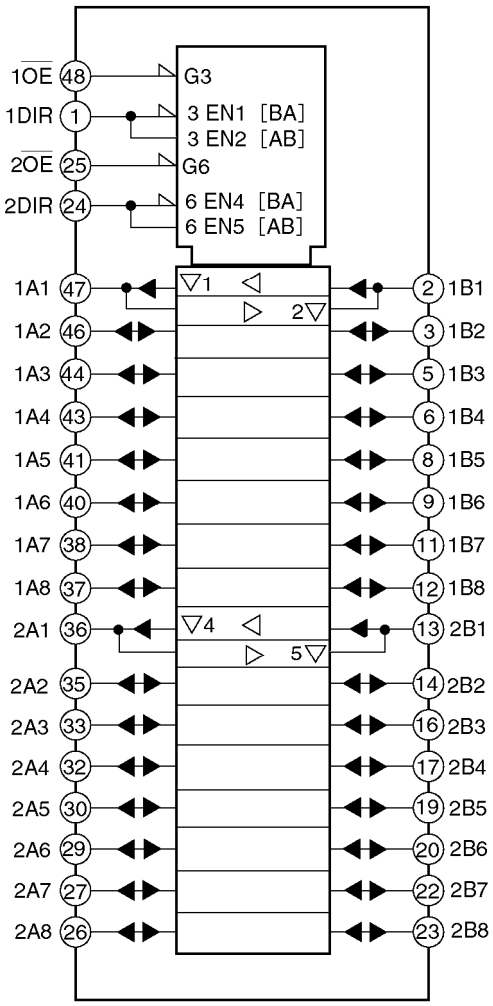


IC603 YEAMB40C958

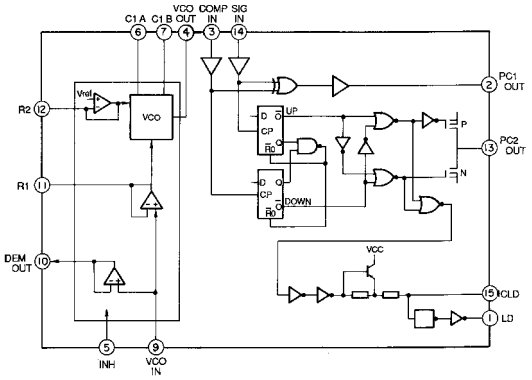


IC604 YEAMCXA1645M

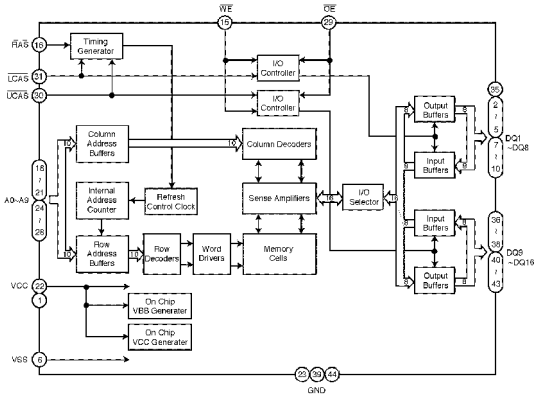
IC612 C0JBAZ001146



IC607 YEAMHC7046DT

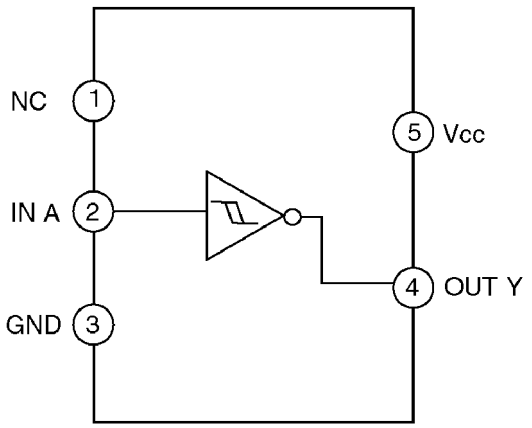


IC610 C3ABMG000037

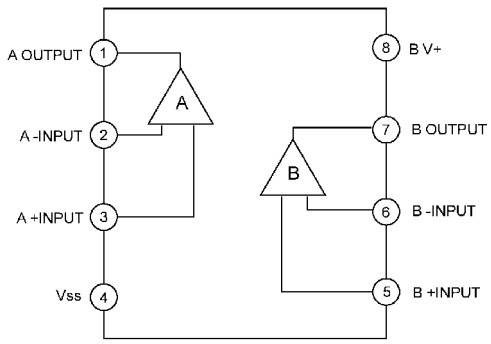


10.2. Sub Block

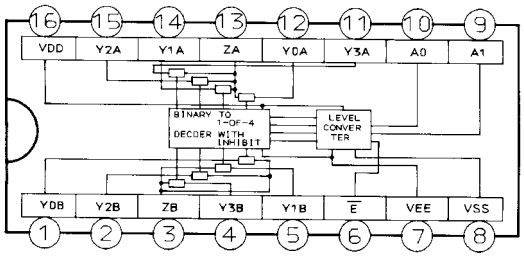
IC402,408,410 YEAMTC7S14FL



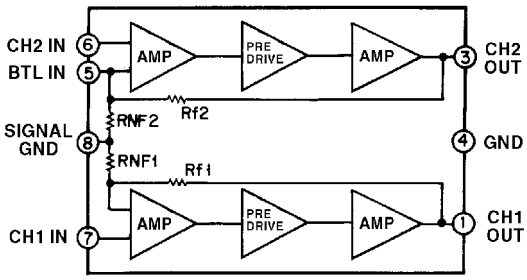
IC403,409 YEAMPC4570T1



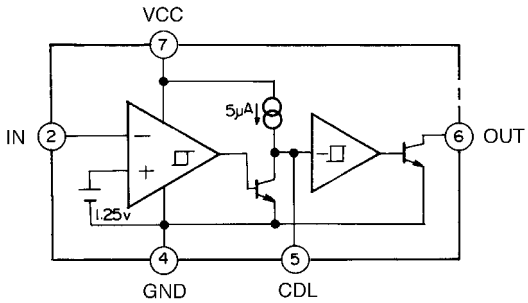
IC404 YEAMPD4052T2



IC405 YEAMLA4525

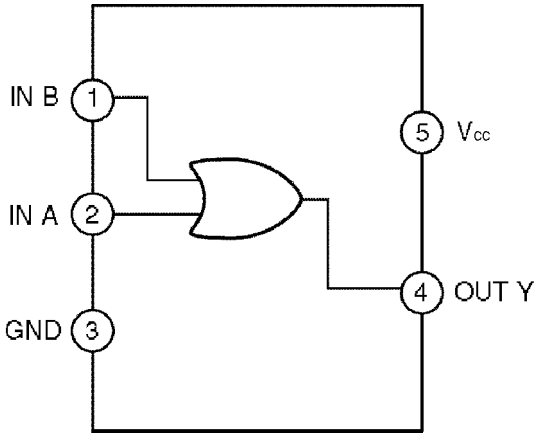


IC406 YEAMM957BFE1

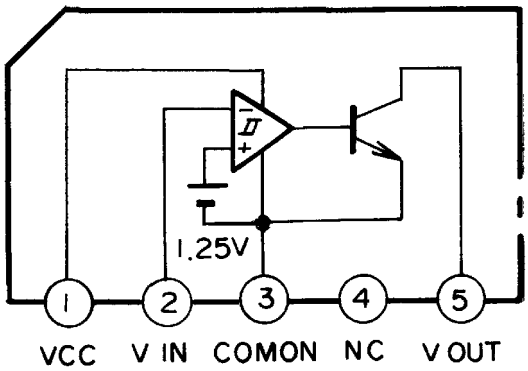


IC407 YEAMMCHC14F

IC412 YEAMT7ST32UL

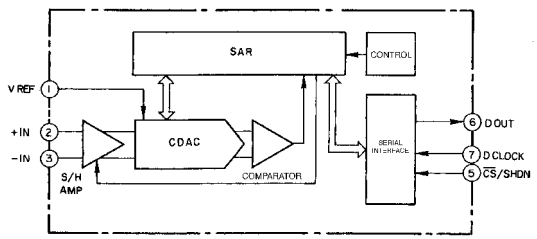


IC701 YEAMM51945AF

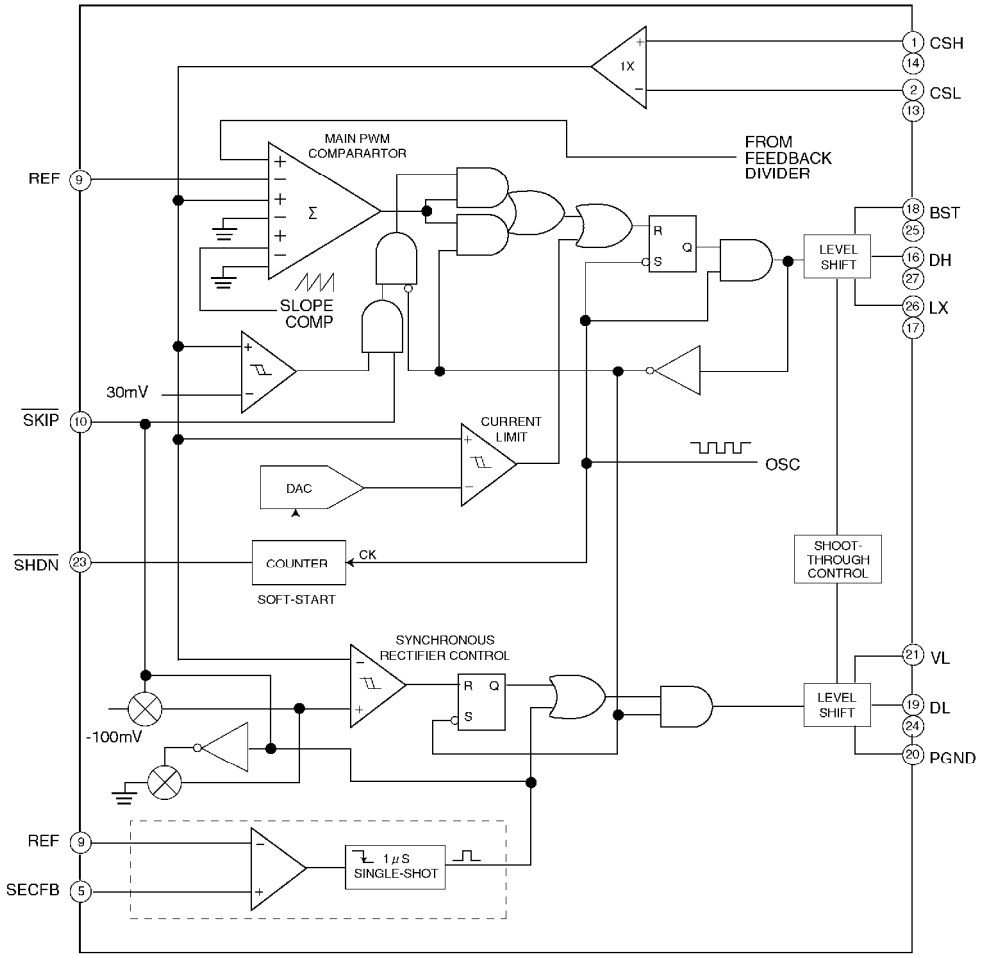


IC702 YEAMPQ30RV2

IC902 C0FBAG000014



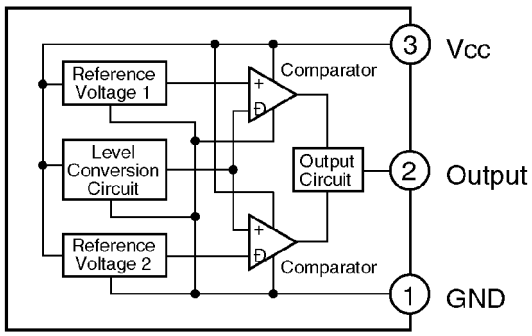
IC703 C0DBCGH00001



10.3. DVD Servo Block

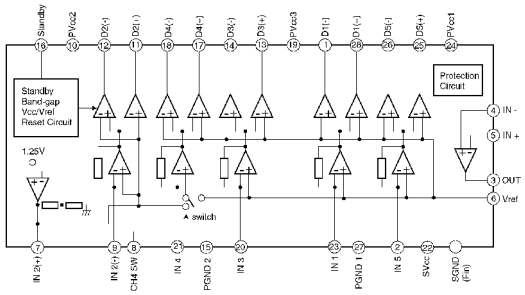
IC101 AN8707FH

IC402 MN13821JP

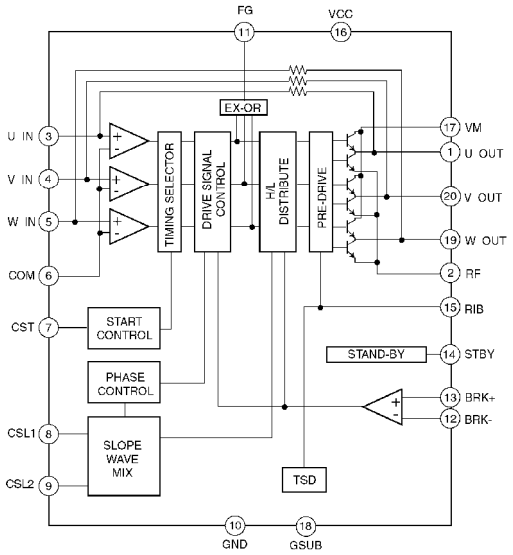


IC453 C3EBDG000012

IC901 AN8785SB-1



IC951 C0GBE0000001



11. REPLACEMENT PARTS LIST

Notes :

1. **Be sure to make your orders of replacement parts according to this list.**
2. **Important safety notice: Components, identified by ⚠ mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.**
3. **Location keys in the remarks column indicates the general location of the parts shown in the exploded drawing, as in a road map.**
4. **The marking (RTL) indicates that Retention Time is limited for this item. After the discontinuation of assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependent on the type of assembly, and in accordance with the laws governing part and product retention. After the end of this period, the assembly will**

no longer be available.

Ref. No.	Part No.	Part Name & Description	Remarks
[E8962Ba/b] Main/Eject Block			
ICs AND TRANSISTORS			
IC102	YEAM74HCT125	IC	
IC250	YEAMBBDA1717	IC	
IC501	C1EB00000030	IC	
IC502	YEAMNVC009	IC	
IC503	YEAMMB29L16T	IC	
IC504	YEAMMB29L16T	IC	
IC505	C3ABPJ000028	IC	
IC506	C0JBAA000102	IC	
IC509	C3CBMG000019	IC	
IC510	C3BBHG000054	IC	
IC512	YEAMT7SH32UL	IC	
IC513	YEAMT7SH14UL	IC	
IC516	YEAMT7SH32UL	IC	
IC517	YEAMLCX08	IC	
IC518	YEAMT7SH00UL	IC	
IC519	C0JBAA000102	IC	
IC520	YEAMT7SH32UL	IC	
IC601	YEAMHD64412F	IC	
IC603	YEAMB40C958	IC	
IC604	YEAMCXA1645M	IC	
IC605	YEAMTC7W74UL	IC	
IC607	YEAMHC7046DT	IC	
IC608	YEAMT7SH14UL	IC	
IC609	YEAMMCHC163F	IC	
IC610	C3ABMG000037	IC	
IC611	YEAMT7ST32UL	IC	
IC612	C0JBAZ001146	IC	
Q501	2SC3929VSL	Transistor	
Q502	2SB779TX	Transistor	
Q503	B1ABCF000042	Transistor	
Q601	B1ABCF000042	Transistor	
DIODES			
D412	MA2J72900L	DIODE	
D413	MA153TX	Diode	
D501	MA3X152A0L	Diode	
D502	YEADRD20MBT1	Diode	
D503	B0BC2R200002	Diode	
CAPACITORS			
C101	YECUZ1C104KX	Ceramic, 0.1 μF 16WV	
C107	YECUZ1C104KX	Ceramic, 0.1 μF 16WV	
C113	YECSW1A106MA	Tantalum, 10 μF 10WV	
C250	ECEV0JA101P	Electrolytic, 100 μF 6.3WV	
C251	YECSW1C106MS	Tantalum, 10 μF 10WV	

Ref. No.	Part No.	Part Name & Description	Remarks
C252	YECSW1C106MS	Tantalum, 10 μ F 16WV	
C253	YECSW1C106MS	Tantalum, 10 μ F 16WV	
C254	F1H1E103A011	Ceramic, 0.01 μ F 25WV	
C501	YECUZ1C104KX	Ceramic, 0.1 μ F 16WV	
C502	YECSW1A106MA	Tantalum, 10 μ F 10WV	
C503	YECUZ1C104KX	Ceramic, 0.1 μ F 16WV	
C504	F1H1E103A011	Ceramic, 0.01 μ F 25WV	
C505	F1H1E103A011	Ceramic, 0.01 μ F 25WV	
C506	F1H1E103A011	Ceramic, 0.01 μ F 25WV	
C507	F1H1E103A011	Ceramic, 0.01 μ F 25WV	
C508	F1H1E103A011	Ceramic, 0.01 μ F 25WV	
C509	F1H1E103A011	Ceramic, 0.01 μ F 25WV	
C510	F1H1E103A011	Ceramic, 0.01 μ F 25WV	
C511	YECUZ1H150JC	Ceramic, 15PF 50WV	
C512	YECUZ1H150JC	Ceramic, 15PF 50WV	
C513	YECUZ1H471JC	Ceramic, 470PF 50WV	
C514	YECUZ1H471JC	Ceramic, 470PF 50WV	
C515	F1H1E103A011	Ceramic, 0.01 μ F 25WV	
C516	F1H1E103A011	Ceramic, 0.01 μ F 25WV	
C517	F1H1E103A011	Ceramic, 0.01 μ F 25WV	
C518	F1H1E103A011	Ceramic, 0.01 μ F 25WV	
C519	F1H1E103A011	Ceramic, 0.01 μ F 25WV	
C520	F1H1E103A011	Ceramic, 0.01 μ F 25WV	
C521	F1H1E103A011	Ceramic, 0.01 μ F 25WV	
C522	F1H1E103A011	Ceramic, 0.01 μ F 25WV	
C523	F1H1E103A011	Ceramic, 0.01 μ F 25WV	
C524	F1H1E103A011	Ceramic, 0.01 μ F 25WV	
C525	F1H1E103A011	Ceramic, 0.01 μ F 25WV	
C526	YECUZ1C104KX	Ceramic, 0.1 μ F 16WV	
C527	YECUZ1C104KX	Ceramic, 0.1 μ F 16WV	
C528	YECSW1A106MA	Tantalum, 10 μ F 10WV	
C529	F1H1E103A011	Ceramic, 0.01 μ F 25WV	
C530	F1H1E103A011	Ceramic, 0.01 μ F 25WV	
C531	F1H1E103A011	Ceramic, 0.01 μ F 25WV	
C532	F1H1E103A011	Ceramic, 0.01 μ F 25WV	
C533	F1H1E103A011	Ceramic, 0.01 μ F 25WV	
C534	F1H1E103A011	Ceramic, 0.01 μ F 25WV	
C535	F1H1E103A011	Ceramic, 0.01 μ F 25WV	
C536	F1H1E103A011	Ceramic, 0.01 μ F 25WV	
C537	F1H1E103A011	Ceramic, 0.01 μ F 25WV	

Ref. No.	Part No.	Part Name & Description	Remarks
C538	F1H1E103A011	Ceramic, 0.01 μF 25WV	
C539	F1H1E103A011	Ceramic, 0.01 μF 25WV	
C540	F1H1E103A011	Ceramic, 0.01 μF 25WV	
C541	F1H1E103A011	Ceramic, 0.01 μF 25WV	
C542	F1H1E103A011	Ceramic, 0.01 μF 25WV	
C543	F1H1E103A011	Ceramic, 0.01 μF 25WV	
C544	F1H1E103A011	Ceramic, 0.01 μF 25WV	
C545	F1H1E103A011	Ceramic, 0.01 μF 25WV	
C546	F1H1E103A011	Ceramic, 0.01 μF 25WV	
C547	F1H1E103A011	Ceramic, 0.01 μF 25WV	
C548	F1H1E103A011	Ceramic, 0.01 μF 25WV	
C549	F1H1E103A011	Ceramic, 0.01 μF 25WV	
C550	F1H1E103A011	Ceramic, 0.01 μF 25WV	
C551	F1H1E103A011	Ceramic, 0.01 μF 25WV	
C552	F1H1E103A011	Ceramic, 0.01 μF 25WV	
C553	YECSW1A106MA	Tantalum, 10 μF 10WV	
C554	F1H1E103A011	Ceramic, 0.01 μF 25WV	
C555	YECSW1A106MA	Tantalum, 10 μF 10WV	
C556	F1H1E103A011	Ceramic, 0.01 μF 25WV	
C557	YECSW1A106MA	Tantalum, 10 μF 10WV	
C558	F1H1E103A011	Ceramic, 0.01 μF 25WV	
C559	F1H1E103A011	Ceramic, 0.01 μF 25WV	
C560	F1H1E103A011	Ceramic, 0.01 μF 25WV	
C561	YECSW1A106MA	Tantalum, 10 μF 10WV	
C562	F1H1E103A011	Ceramic, 0.01 μF 25WV	
C563	F1H1E103A011	Ceramic, 0.01 μF 25WV	
C564	F1H1E103A011	Ceramic, 0.01 μF 25WV	
C565	F1H1E103A011	Ceramic, 0.01 μF 25WV	
C566	F1H1E103A011	Ceramic, 0.01 μF 25WV	
C567	F1H1E103A011	Ceramic, 0.01 μF 25WV	
C568	F1H1E103A011	Ceramic, 0.01 μF 25WV	
C569	F1H1E103A011	Ceramic, 0.01 μF 25WV	
C570	F1H1E103A011	Ceramic, 0.01 μF 25WV	
C571	F1H1E103A011	Ceramic, 0.01 μF 25WV	
C572	F1H1E103A011	Ceramic, 0.01 μF 25WV	
C573	F1H1E103A011	Ceramic, 0.01 μF 25WV	
C574	YECSW1A106MA	Tantalum, 10 μF 10WV	
C575	F1J1H390A025	Ceramic, 39PF 50WV	
C576	YECSW1A106MA	Tantalum, 10 μF 10WV	

Ref. No.	Part No.	Part Name & Description	Remarks
C577	F1H1E103A011	Ceramic, 0.01 μF 25WV	
C578	F1H1E103A011	Ceramic, 0.01 μF 25WV	
C579	YECUZ1H220JC	Ceramic, 22PF 50WV	
C580	F1H1E103A011	Ceramic, 0.01 μF 25WV	
C581	YECUZ1C104KX	Ceramic, 0.1 μF 16WV	
C582	ECEV1CA470SP	Electrolytic, 47 μF 16WV	
C583	YECUZ1C104KX	Ceramic, 0.1 μF 16WV	
C584	YECUZ1C104KX	Ceramic, 0.1 μF 16WV	
C585	YECUU1A226ZF	Tantalum, 22 μF 10WV	
C586	YECUZ1C104KX	Ceramic, 0.1 μF 16WV	
C587	YECUZ1C104KX	Ceramic, 0.1 μF 16WV	
C588	YECUU1A226ZF	Tantalum, 22 μF 10WV	
C589	F1H1E103A011	Ceramic, 0.01 μF 25WV	
C590	F1H1E103A011	Ceramic, 0.01 μF 25WV	
C598	F1H1E103A011	Ceramic, 0.01 μF 25WV	
C599	F1H1E103A011	Ceramic, 0.01 μF 25WV	
C601	YECUZ1C104KX	Ceramic, 0.1 μF 16WV	
C602	YECSW1C106MS	Tantalum, 10 μF 16WV	
C603	F1H1E103A011	Ceramic, 0.01 μF 25WV	
C604	YECUZ1H471JC	Ceramic, 470PF 50WV	
C605	F1H1E103A011	Ceramic, 0.01 μF 25WV	
C606	F1H1E103A011	Ceramic, 0.01 μF 25WV	
C607	F1H1E103A011	Ceramic, 0.01 μF 25WV	
C608	F1H1E103A011	Ceramic, 0.01 μF 25WV	
C609	F1H1E103A011	Ceramic, 0.01 μF 25WV	
C610	F1H1E103A011	Ceramic, 0.01 μF 25WV	
C611	F1H1E103A011	Ceramic, 0.01 μF 25WV	
C612	F1H1E103A011	Ceramic, 0.01 μF 25WV	
C613	F1H1E103A011	Ceramic, 0.01 μF 25WV	
C614	F1H1E103A011	Ceramic, 0.01 μF 25WV	
C620	YECSW1C106MS	Tantalum, 10 μF 16WV	
C621	YECUZ1C104KX	Ceramic, 0.1 μF 16WV	
C623	YECSW1C106MS	Tantalum, 10 μF 16WV	
C624	YECUZ1C104KX	Ceramic, 0.1 μF 16WV	
C625	YECUZ1C104KX	Ceramic, 0.1 μF 16WV	
C626	YECUZ1C104KX	Ceramic, 0.1 μF 16WV	
C627	YECUZ1C104KX	Ceramic, 0.1 μF 16WV	
C628	YECUZ1C104KX	Ceramic, 0.1 μF 16WV	
C629	YECUZ1C104KX	Ceramic, 0.1 μF 16WV	

Ref. No.	Part No.	Part Name & Description	Remarks
C630	F1H1E103A011	Ceramic, 0.01 μF 25WV	
C631	F1H1E103A011	Ceramic, 0.01 μF 25WV	
C635	F1H1E103A011	Ceramic, 0.01 μF 25WV	
C636	YECUZ1H331JC	Ceramic, 330PF 50WV	
C637	F1H1E103A011	Ceramic, 0.01 μF 25WV	
C638	F1H1E103A011	Ceramic, 0.01 μF 25WV	
C639	YECSW1C106MS	Tantalum, 10 μF 16WV	
C640	F1H1H820A231	Ceramic, 82PF 50WV	
C641	F1H1E103A011	Ceramic, 0.01 μF 25WV	
C642	EEVFC0J221P	Electrolytic, 220 μF 6.3WV	
C643	YECUZ1C104KX	Cermic, 0.1 μF 16WV	
C644	YECUZ1C104KX	Ceramic, 0.1 μF 16WV	
C645	YECUZ1C104KX	Ceramic, 0.1 μF 16WV	
C646	YECUZ1C104KX	Ceramic, 0.1 μF 16WV	
C647	YECUZ1C104KX	Ceramic, 0.1 μF 16WV	
C648	YECUS1H151KC	Ceramic, 150PF 50WV	
C649	YECUZ1C104KX	Ceramic, 0.1 μF 16WV	
C650	F1H1H180A231	Ceramic, 18PF 50WV	
C651	YECSW1C106MS	Tantalum, 10 μF 16WV	
C652	YECUZ1C104KX	Cermic, 0.1 μF 16WV	
C653	YECUZ1C104KX	Ceramic, 0.1 μF 16WV	
C659	YECUU1A226ZF	Tantalum, 22 μF 10WV	
C660	F1H1E103A011	Ceramic, 0.01 μF 25WV	
C661	F1H1E103A011	Ceramic, 0.01 μF 25WV	
C662	F1H1E103A011	Ceramic, 0.01 μF 25WV	
C663	F1H1E103A011	Ceramic, 0.01 μF 25WV	
C664	YECUZ1C104KX	Ceramic, 0.1 μF 16WV	
C665	YECUZ1C104KX	Ceramic, 0.1 μF 16WV	
C667	YECSW1C106MS	Tantalum, 10 μF 16WV	
C668	F1H1E103A011	Ceramic, 0.01 μF 25WV	
C669	F1H1E103A011	Ceramic, 0.01 μF 25WV	
C670	F1H1E103A011	Ceramic, 0.01 μF 25WV	
C671	F1H1E103A011	Ceramic, 0.01 μF 25WV	
C672	F1H1E103A011	Ceramic, 0.01 μF 25WV	
C674	YECUZ1C104KX	Ceramic, 0.1 μF 16WV	
C675	YECSW1C106MS	Tantalum, 10 μF 16WV	
C743	EEVFC0J221P	Electrolytic, 220 μF 6.3WV	
C744	EEVFC0J221P	Electrolytic, 220 μF 6.3WV	
C746	EEVFC0J221P	Electrolytic, 220 μF 6.3WV	
C745	YECSW1A226MS	Tantalum, 22 μF 10WV	

Ref. No.	Part No.	Part Name & Description	Remarks
LC102	YECCL39R222T	Capacitor	
LC105	YECCL39R222T	Capacitor	
LC501	YECCL39R222T	Capacitor	
LC502	YECCL39R222T	Capacitor	
LC503	YECCL39R222T	Capacitor	
LC507	YECCL39R222T	Capacitor	
LC508	YECCL39R222T	Capacitor	
LC510	YECCL39R222T	Capacitor	
LC511	YECCL39R222T	Capacitor	
LC513	YECCL39R222T	Capacitor	
LC518	YECCL39R222T	Capacitor	
LC520	YECCL39R222T	Capacitor	
LC601	F1Z1E4710001	Capacitor	
LC602	YECCL39R222T	Capacitor	
LC607	YECCL39R222T	Capacitor	
LC609	F1Z1E4710001	Capacitor	
LC610	YECCL39R222T	Capacitor	
LC615	F1Z1E4710001	Capacitor	
RESISTORS			
FB520	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
LC616	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
R101	ERJ2GEJ220X	Chip, 22 Ω 1/16W	
R102	ERJ2GEJ220X	Chip, 22 Ω 1/16W	
R103	ERJ2GEJ220X	Chip, 22 Ω 1/16W	
R104	ERJ2GEJ220X	Chip, 22 Ω 1/16W	
R120	ERJ2GEJ103X	Chip, 10k Ω 1/16W	
R121	ERJ2GEJ103X	Chip, 10k Ω 1/16W	
R124	ERJ2GEJ103X	Chip, 10k Ω 1/16W	
R125	ERJ2GEJ103X	Chip, 10k Ω 1/16W	
R126	ERJ2GEJ103X	Chip, 10k Ω 1/16W	
R141	ERJ2GEJ103X	Chip, 10k Ω 1/16W	
R142	ERJ2GEJ103X	Chip, 10k Ω 1/16W	
R143	ERJ2GEJ103X	Chip, 10k Ω 1/16W	
R144	ERJ2GEJ103X	Chip, 10k Ω 1/16W	
R149	ERJ2GEJ473X	Chip, 47k Ω 1/16W	
R150	ERJ2GEJ220X	Chip, 22 Ω 1/16W	
R151	ERJ2GEJ220X	Chip, 22 Ω 1/16W	
R152	ERJ2GEJ220X	Chip, 22 Ω 1/16W	
R153	ERJ2GEJ220X	Chip, 22 Ω 1/16W	
R171	ERJ2GEJ220X	Chip, 22 Ω 1/16W	
R172	ERJ2GEJ220X	Chip, 22 Ω 1/16W	
R173	ERJ2GEJ220X	Chip, 22 Ω 1/16W	
R228	ERJ2GEJ220X	Chip, 22 Ω 1/16W	
R250	ERJ3GEYJ680V	Chip, 68 Ω 1/16W	
R501	ERJ2GEJ220X	Chip, 22 Ω 1/16W	
R502	ERJ2GEJ220X	Chip, 22 Ω 1/16W	

Ref. No.	Part No.	Part Name & Description	Remarks
R503	ERJ2GEJ220X	Chip, 22 Ω 1/16W	
R504	ERJ2GEJ220X	Chip, 22 Ω 1/16W	
R505	ERJ2GEJ472X	Chip, 4.7k Ω 1/16W	
R506	ERJ2GEJ472X	Chip, 4.7k Ω 1/16W	
R509	ERJ2GEJ472X	Chip, 4.7k Ω 1/16W	
R510	ERJ2GEJ220X	Chip, 22 Ω 1/16W	
R513	ERJ2GEJ473X	Chip, 47k Ω 1/16W	
R514	ERJ2GEJ220X	Chip, 22 Ω 1/16W	
R515	ERJ2GEJ220X	Chip, 22 Ω 1/16W	
R516	ERJ2GEJ220X	Chip, 22 Ω 1/16W	
R517	ERJ2GEJ220X	Chip, 22 Ω 1/16W	
R518	ERJ2GEJ473X	Chip, 47k Ω 1/16W	
R519	ERJ2GEJ473X	Chip, 47k Ω 1/16W	
R520	ERJ3GEYJ221V	Chip, 220 Ω 1/16W	
R521	ERJ2GEJ220X	Chip, 22 Ω 1/16W	
R522	ERJ2GEJ220X	Chip, 22 Ω 1/16W	
R527	ERJ2GEJ220X	Chip, 22 Ω 1/16W	
R528	ERJ2GEJ220X	Chip, 22 Ω 1/16W	
R529	ERJ2GEJ220X	Chip, 22 Ω 1/16W	
R530	ERJ2GEJ220X	Chip, 22 Ω 1/16W	
R531	ERJ2GEJ333X	Chip, 33k Ω 1/16W	
R532	ERJ2GEJ220X	Chip, 22 Ω 1/16W	
R533	ERJ2GEJ220X	Chip, 22 Ω 1/16W	
R534	ERJ2GEJ220X	Chip, 22 Ω 1/16W	
R535	ERJ2GEJ220X	Chip, 22 Ω 1/16W	
R536	ERJ2GEJ220X	Chip, 22 Ω 1/16W	
R538	ERJ2GEJ220X	Chip, 22 Ω 1/16W	
R539	ERJ2GEJ221X	Chip, 220 Ω 1/16W	
R540	ERJ2GEJ220X	Chip, 22 Ω 1/16W	
R541	ERJ2GEJ103X	Chip, 10k Ω 1/16W	
R543	ERJ2GEJ220X	Chip, 22 Ω 1/16W	
R544	ERJ2GEJ220X	Chip, 22 Ω 1/16W	
R553	ERJ2GEJ473X	Chip, 47k Ω 1/16W	
R554	ERJ2GEJ220X	Chip, 22 Ω 1/16W	
R555	ERJ2GEJ220X	Chip, 22 Ω 1/16W	
R556	ERJ2GEJ220X	Chip, 22 Ω 1/16W	
R557	ERJ2GEJ822X	Chip, 8.2k Ω 1/16W	
R558	ERJ2GEJ122X	Chip, 1.2k Ω 1/16W	
R559	ERJ3GEYJ681V	Chip, 680 Ω 1/16W	
R563	ERJ3GEYJ561V	Chip, 560 Ω 1/16W	
R564	ERJ3GEYJ681V	Chip, 680 Ω 1/16W	
R565	ERJ3GEYJ102V	Chip, 1k Ω 1/16W	
R566	ERJ2GEJ473X	Chip, 47k Ω 1/16W	
R569	ERJ2GEJ473X	Chip, 47k Ω 1/16W	
R570	ERJ2GE0R00X	Chip, 0 Ω 1/16W	

Ref. No.	Part No.	Part Name & Description	Remarks
R571	ERJ2GEJ472X	Chip, 4.7k Ω 1/16W	
R572	ERJ2GEJ472X	Chip, 4.7k Ω 1/16W	
R573	ERJ2GEJ220X	Chip, 22 Ω 1/16W	
R574	ERJ2GEJ220X	Chip, 22 Ω 1/16W	
R575	ERJ2GEJ220X	Chip, 22 Ω 1/16W	
R576	ERJ2GEJ220X	Chip, 22 Ω 1/16W	
R578	ERJ2GEJ472X	Chip, 4.7k Ω 1/16W	
R580	ERJ2GEJ222X	Chip, 2.2 Ω 1/16W	
R581	ERJ2GE0R00X	Chip, 0 Ω 1/16W	
R583	ERJ2GEJ103X	Chip, 10k Ω 1/16W	
R584	ERJ2GEJ103X	Chip, 10k Ω 1/16W	
R585	ERJ2GEJ103X	Chip, 10k Ω 1/16W	
R587	ERJ2GEJ222X	Chip, 2.2k Ω 1/16W	
R588	ERJ2GEJ332X	Chip, 3.3k Ω 1/16W	
R589	ERJ2GEJ220X	Chip, 22 Ω 1/16W	
R590	ERJ2GEJ220X	Chip, 22 Ω 1/16W	
R591	ERJ2GEJ220X	Chip, 22 Ω 1/16W	
R592	ERJ2GEJ220X	Chip, 22 Ω 1/16W	
R593	ERJ2GEJ472X	Chip, 4.7k Ω 1/16W	
R594	ERJ2GEJ220X	Chip, 22 Ω 1/16W	
R595	ERJ2GEJ220X	Chip, 22 Ω 1/16W	
R603	ERJ2GEJ472X	Chip, 4.7k Ω 1/16W	
R605	ERJ2GEJ220X	Chip, 22 Ω 1/16W	
R606	ERJ2GEJ332X	Chip, 3.3k Ω 1/16W	
R607	ERJ2GEJ220X	Chip, 22 Ω 1/16W	
R608	ERJ2GEJ220X	Chip, 22 Ω 1/16W	
R609	ERJ2GEJ220X	Chip, 22 Ω 1/16W	
R610	ERJ2GEJ220X	Chip, 22 Ω 1/16W	
R611	ERJ2GEJ220X	Chip, 22 Ω 1/16W	
R612	ERJ2GEJ220X	Chip, 22 Ω 1/16W	
R613	ERJ2GE0R00X	Chip, 0 Ω 1/16W	
R614	ERJ2GEJ473X	Chip, 47k Ω 1/16W	
R615	ERJ2GEJ153X	Chip, 15k Ω 1/16W	
R616	ERJ2GEJ332X	Chip, 3.3k Ω 1/16W	
R617	ERJ14YJ4R7H	Chip, 4.7 Ω 1/4W	
R618	ERJ2GEJ220X	Chip, 22 Ω 1/16W	
R619	ERJ2GEJ220X	Chip, 22 Ω 1/16W	
R620	ERJ2GEJ220X	Chip, 22 Ω 1/16W	
R621	ERJ2GEJ222X	Chip, 2.2k Ω 1/16W	
R622	ERJ3GEYJ203V	Chip, 20k Ω 1/16W	
R623	ERJ2GEJ473X	Chip, 47k Ω 1/16W	
R624	ERJ3GEYJ221V	Chip, 220 Ω 1/16W	
R625	ERJ3GEYJ221V	Chip, 220 Ω 1/16W	
R626	ERJ2GEJ220X	Chip, 22 Ω 1/16W	
R627	ERJ2GEJ220X	Chip, 22 Ω 1/16W	

Ref. No.	Part No.	Part Name & Description	Remarks
R628	ERJ3GEYJ221V	Chip, 220 Ω 1/16W	
R630	ERJ2GEJ220X	Chip, 22 Ω 1/16W	
R631	ERJ2GEJ220X	Chip, 22 Ω 1/16W	
R632	ERJ3GEYJ122V	Chip, 1.2k Ω 1/16W	
R633	ERJ3GEYJ101V	Chip, 100 Ω 1/16W	
R634	ERJ2GEJ103X	Chip, 10k Ω 1/16W	
R635	ERJ2GEJ332X	Chip, 3.3k Ω 1/16W	
R641	ERJ2GEJ332X	Chip, 3.3k Ω 1/16W	
R642	ERJ2GEJ220X	Chip, 22 Ω 1/16W	
R643	ERJ2GEJ332X	Chip, 3.3k Ω 1/16W	
R644	ERJ3GEYJ181V	Chip, 180 Ω 1/16W	
R645	ERJ3GEYJ181V	Chip, 180 Ω 1/16W	
R646	ERJ3GEYJ181V	Chip, 180 Ω 1/16W	
R647	ERJ2GEJ473X	Chip, 47k Ω 1/16W	
R648	ERJ2GEJ473X	Chip, 47k Ω 1/16W	
R649	ERJ2GEJ473X	Chip, 47k Ω 1/16W	
R650	ERJ2GEJ473X	Chip, 47k Ω 1/16W	
R651	ERJ2GEJ472X	Chip, 47k Ω 1/16W	
R653	ERJ6GEYJ101	Chip, 100 Ω 1/10W	
R654	ERJ3GEY0R00V	Chip, 0 Ω 1/16W	
R655	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
R884	ERJ2GEJ473X	Chip, 47k Ω 1/16W	
R885	ERJ2GEJ473X	Chip, 47k Ω 1/16W	
R886	ERJ2GEJ473X	Chip, 47k Ω 1/16W	
R887	ERJ2GEJ473X	Chip, 47k Ω 1/16W	
R893	ERJ2GEJ473X	Chip, 47k Ω 1/16W	
R894	ERJ2GEJ473X	Chip, 47k Ω 1/16W	
R895	ERJ2GEJ473X	Chip, 47k Ω 1/16W	
R896	ERJ2GEJ473X	Chip, 47k Ω 1/16W	
CONNECTORS			
CN103	K1MN50B00009	Connector, 50P	
CN104	K1MN40B00006	Connector, 40P	
CN105	YEAE012794	Connector, 6P	
CN107	YEAE012795	Connector, 6P	
CN108	YEAE5220706	Connector, 6P	
SWITCH			
SW1	YEAS09267	Switch	
CRYSTALS			
XL250	YEXLCSTC169T	Crystal OSC	
XL501	YEXL5F06144T	Crystal OSC	
XL601	YEXL31H0358T	Crystal OSC	
XL401	YEXL5F08388T	Crystal OSC	

Ref. No.	Part No.	Part Name & Description	Remarks
COILS			
FB103	YELTBLM21P3S	Coil	
FB109	YELTBLM21P3S	Coil	
FB110	YELTBLM21P3S	Coil	
FB202	YELTBLM21P3S	Coil	
FB501	YELTBLM21P3S	Coil	
FB502	YELTBLM21P3S	Coil	
FB503	YELTBLM21P3S	Coil	
FB504	YELTBLM21P3S	Coil	
FB505	YELTBLM21P3S	Coil	
FB506	YELTBLM21P3S	Coil	
FB510	YELTBLM21P3S	Coil	
FB511	YELTBLM21P3S	Coil	
FB512	YELTBLM21P3S	Coil	
FB515	YELTBLM21P3S	Coil	
FB518	YELTBLM21P3S	Coil	
FB519	YELTBLM21P3S	Coil	
FB521	YELTBLM21P3S	Coil	
FB601	YELTBLM21P3S	Coil	
FB602	YELTBLM21P3S	Coil	
FB603	YELTBLM21P3S	Coil	
FB604	YELTBLM21P3S	Coil	
FB605	YELTBLM21P3S	Coil	
FB606	YELTBLM21P3S	Coil	
FB607	YELTBLM21P3S	Coil	
FB608	YELTBLM21P3S	Coil	
FB615	YELTBLM21P3S	Coil	
FB701	YELTBLM21P3S	Coil	
L501	YETQLM250S40	Coil	
L502	YETQLM250S40	Coil	
L602	G1C2R2M00002	Coil	
L603	YELT03N101JT	Coil	
RESISTOR NETWORKS			
RA101	D1H822040002	Resistor Network	
RA102	D1H822040002	Resistor Network	
RA103	D1H822040002	Resistor Network	
RA104	D1H822040002	Resistor Network	
RA119	D1H822040002	Resistor Network	
RA120	D1H822040002	Resistor Network	
RA121	D1H822040002	Resistor Network	
RA123	D1H822040002	Resistor Network	
RA501	D1H822040002	Resistor Network	
RA502	D1H822040002	Resistor Network	
RA503	D1H822040002	Resistor Network	
RA504	D1H822040002	Resistor Network	
RA505	D1H822040002	Resistor Network	
RA506	D1H822040002	Resistor Network	
RA507	D1H822040002	Resistor Network	
RA508	D1H822040002	Resistor Network	
RA509	D1H822040002	Resistor Network	

Ref. No.	Part No.	Part Name & Description	Remarks
RA510	D1H822040002	Resistor Network	
RA511	D1H822040002	Resistor Network	
RA512	D1H822040002	Resistor Network	
RA513	D1H822040002	Resistor Network	
RA515	D1H822040002	Resistor Network	
RA516	D1H822040002	Resistor Network	
RA517	D1H822040002	Resistor Network	
RA518	D1H822040002	Resistor Network	
RA519	D1H822040002	Resistor Network	
RA520	D1H822040002	Resistor Network	
RA521	D1H822040002	Resistor Network	
RA522	D1H822040002	Resistor Network	
RA523	D1H822040002	Resistor Network	
RA524	D1H822040002	Resistor Network	
RA525	D1H822040002	Resistor Network	
RA527	D1H822040002	Resistor Network	
RA528	D1H822040002	Resistor Network	
RA529	D1H822040002	Resistor Network	
RA530	D1H822040002	Resistor Network	
RA531	D1H822040002	Resistor Network	
RA532	D1H822040002	Resistor Network	
RA533	D1H822040002	Resistor Network	
RA534	D1H822040002	Resistor Network	
RA535	D1H822040002	Resistor Network	
RA536	D1H822040002	Resistor Network	
RA537	D1H822040002	Resistor Network	
RA541	D1H847240004	Resistor Network	
RA542	D1H847240004	Resistor Network	
RA543	D1H847240004	Resistor Network	
RA544	D1H847240004	Resistor Network	
RA550	D1H822040002	Resistor Network	
RA551	D1H822040002	Resistor Network	
RA552	D1H822040002	Resistor Network	
RA553	D1H822040002	Resistor Network	
RA601	D1H810140004	Resistor Network	
RA602	D1H810140004	Resistor Network	
RA603	D1H822040002	Resistor Network	
RA604	D1H822040002	Resistor Network	
RA605	D1H822040002	Resistor Network	
RA606	D1H810140004	Resistor Network	
RA607	D1H810140004	Resistor Network	
RA608	D1H822040002	Resistor Network	
RA609	D1H822040002	Resistor Network	
RA610	D1H822040002	Resistor Network	
RA611	D1H822040002	Resistor Network	
RA612	D1H847240004	Resistor Network	
RA613	D1H847240004	Resistor Network	
RA614	D1H847240004	Resistor Network	
RA615	D1H847240004	Resistor Network	
[E8963Ba/b] Sub/Connector Block			
ICs AND TRANSISTORS			

Ref. No.	Part No.	Part Name & Description	Remarks
IC401	C2BBED000001	IC	
IC402	YEAMTC7S14FL	IC	
IC403	YEAMPC4570T1	IC	
IC404	YEAMPD4052T2	IC	
IC405	YEAMLA4525	IC	
IC406	YEAMM957BFE1	IC	
IC407	YEAMMCHC14F	IC	
IC408	YEAMTC7S14FL	IC	
IC409	YEAMPC4570T1	IC	
IC410	YEAMTC7S14FL	IC	
IC411	C0JBAZ000525	IC	
IC412	YEAMT7ST32UL	IC	
IC701	YEAMM51945AF	IC	
IC702	YEAMPQ30RV2	IC	
IC703	C0DBCGH00001	IC	
IC804	C0JBAZ000525	IC	
IC901	EWTS82NB11	Gyro sensor	
IC902	C0FBAG000014	IC	
PTK3	YESAP209	GPS Pack	
Q301	YEANC4081STX	Transistor	
Q302	YEANC114WKTX	Transistor	
Q303	B1GDCFJJ0002	Transistor	
Q401	B1BBAC000007	Transistor	
Q402	YEANC4081STX	Transistor	
Q403	B1GBCFJJ0002	Transistor	
Q404	YEANIMD3TKX	Transistor	
Q405	YEANIMD3TKX	Transistor	
Q406	B1ABCF000042	Transistor	
Q407	B1GDCFJJ0002	Transistor	
Q408	B1GBCFJJ0002	Transistor	
Q409	B1ABCF000044	Transistor	
Q410	B1ABCF000042	Transistor	
Q411	B1ABCF000044	Transistor	
Q415	YEANC1621T2	Transistor	
Q421	YEANC143EUDL	Transistor	
Q701	YEANFP1F3PT1	Transistor	
Q702	YEANA1647ZKT	Transistor	
Q703	B1GDCFLL0010	Transistor	
Q704	B1GBCFJJ0007	Transistor	
Q705	B1ABCF000044	Transistor	
Q707	B1BBAC000007	Transistor	
Q708	B1BBAC000007	Transistor	
Q710	B1DFED000001	Transistor	
Q711	B1DFED000001	Transistor	
Q712	B1DFED000001	Transistor	
Q713	B1DFED000001	Transistor	
Q802	YEANIMD3TKX	Transistor	
DIODES			
D401	MA152WKTX	Diode	
D402	MA153TX	Diode	
D403	MA153TX	Diode	
D404	MA3X152A0L	Diode	

Ref. No.	Part No.	Part Name & Description	Remarks
D405	MA152WKTX	Diode	
D409	MA3X152K0L	Diode	
D410	MA3X152K0L	Diode	
D415	MA3X152K0L	Diode	
D416	MA3X152A0L	Diode	
D417	MA3J741D0L	Diode	
D411	MA153TX	Diode	
D413	MA158TX	Diode	
D414	MA153TX	Diode	
D418	MA741TX	Diode	
D601	MA8056LMHTX	Diode	
D602	MA8056LMHTX	Diode	
D603	MA8056LMHTX	Diode	
D604	MA8056LMHTX	Diode	
D605	MA8056LMHTX	Diode	
D701	YEADDAM3MA47	Diode	
D702	YEADRB081L20	Diode	
D705	YEADEC10DS1	Diode	
D706	YEADRD56M2T1	Diode	
D707	YEADRD47M2T1	Diode	
D708	MA3X152K0L	DIODE	
D710	B0JCQD000001	Diode	
D711	B0JCQD000001	Diode	
D712	YEADRB081L20	Diode	
D713	MA3J741D0L	Diode	
D714	MA741TX	Diode	
D801	MA153TX	Diode	
D802	MA153TX	Diode	
D803	MA153TX	Diode	
D901	MA153TX	Diode	
CAPACITORS			
C201	YECSV1AM335R	Tantalum, 3.3 μF 10WV	
C203	YECUS1H822KX	Ceramic, 0.0082 μF 50WV	
C301	YECSV1AM335R	Tantalum, 3.3 μF 10WV	
C303	YECUS1H822KX	Ceramic, 0.0082 μF 50WV	
C307	YECUZ1H471JC	Ceramic, 470PF 50WV	
C308	ECEV0JA470SR	Electrolytic, 47 μF 6.3WV	
C309	F1H1H470A231	Ceramic, 47PF 50WV	
C310	YECSV1AM335R	Tantalum, 3.3 μF 10WV	
C311	YECUV1A335KX	Ceramic, 3.3 μF 10WV	
C312	YECUZ1C104KX	Ceramic, 0.1 μF 16WV	
C313	YECUZ1H102KX	Ceramic, 0.001 μF 50WV	
C314	YECUS1H101JM	Ceramic, 100PF 50WV	
C351	YECUU1A226ZF	Tantalum, 22 μF 10WV	
C352	YECSV1CM225R	Tantalum, 2.2 μF 16WV	
C353	F1K1A1060001	Ceramic, 10 μF 10WV	
C354	ECA1CM221I	Electrolytic, 220 μF 16WV	

Ref. No.	Part No.	Part Name & Description	Remarks
C401	YECUU1A226ZF	Tantalum, 22 μ F 10WV	
C402	YECSW1C106MS	Tantalum, 10 μ F 16WV	
C403	YECUZ1C104KX	Ceramic, 0.1 μ F 16WV	
C404	YECUU1A226ZF	Tantalum, 22 μ F 10WV	
C405	YECUZ1H220JC	Ceramic, 22PF 50WV	
C406	YECUZ1H220JC	Ceramic, 22PF 50WV	
C407	F1H1E103A011	Ceramic, 0.01 μ F 25WV	
C408	YECUU1A226ZF	Tantalum, 22 μ F 10WV	
C409	YECUS1C104KX	Ceramic, 0.1 μ F 16WV	
C410	YECUU1A226ZF	Tantalum, 22 μ F 10WV	
C411	YECUS1C104KX	Ceramic, 0.1 μ F 16WV	
C412	YECUS1C104KX	Ceramic, 0.1 μ F 16WV	
C418	YECUU1A226ZF	Tantalum, 22 μ F 10WV	
C419	YECUU1A226ZF	Tantalum, 22 μ F 10WV	
C420	YECUU1A226ZF	Tantalum, 22 μ F 10WV	
C421	F1K1A1060001	Ceramic, 10 μ F 10WV	
C425	YECUU1A226ZF	Tantalum, 22 μ F 10WV	
C427	YECUZ1H472KX	Ceramic, 0.0047 μ F 50WV	
C428	YECUZ1C104KX	Ceramic, 0.1 μ F 16WV	
C429	YECUZ1E153KX	Ceramic, 0.015 μ F 25WV	
C430	YECUZ1C104KX	Ceramic, 0.1 μ F 16WV	
C431	YECUZ1A224KX	Ceramic, 0.22 μ F 10WV	
C432	YECUZ1C104KX	Ceramic, 0.1 μ F 16WV	
C433	YECUZ1C104KX	Ceramic, 0.1 μ F 16WV	
C434	F1K1A1060001	Ceramic, 10 μ F 10WV	
C435	YECUZ1H561KX	Ceramic, 560PF 50WV	
C436	YECUZ1H330JC	Ceramic, 33PF 50WV	
C437	YECUZ1C104KX	Ceramic, 0.1 μ F 16WV	
C438	YECUS1H472KX	Ceramic, 0.0047PF 50WV	
C439	YECUS1C224KX	Ceramic, 0.22 μ F 16WV	
C440	YECUS1C224KX	Ceramic, 0.22 μ F 16WV	
C441	YECUZ1C104KX	Ceramic, 0.1 μ F 16WV	
C442	YECUZ1C104KX	Ceramic, 0.1 μ F 16WV	
C443	YECUS1H101JM	Ceramic, 100PF 50WV	
C444	YECUS1H102KX	Ceramic, 0.001 μ F 50WV	
C445	YECUS1H102KX	Ceramic, 0.001 μ F 50WV	
C446	YECUS1H562KX	Ceramic, 0.0056 μ F 50WV	
C451	YECUS1H101JM	Ceramic, 100PF 50WV	
C452	YECUZ1C104KX	Ceramic, 0.1 μ F 16WV	
C453	YECUZ1C104KX	Ceramic, 0.1 μ F 16WV	
C454	YECUU1A226ZF	Tantalum, 22 μ F 10WV	

Ref. No.	Part No.	Part Name & Description	Remarks
C457	YECUZ1H271JC	Ceramic, 270PF 50WV	
C458	YECUZ1H271JC	Ceramic, 270PF 50WV	
C459	YECUZ1H271JC	Ceramic, 270PF 50WV	
C460	YECUS1H103KX	Ceramic, 0.01 μ F 50WV	
C463	YECUS1H103KX	Ceramic, 0.01 μ F 50WV	
C654	ECA1CHG101I	Electrolytic, 100 μ F 16WV	
C655	ECA1CHG101I	Electrolytic, 100 μ F 16WV	
C656	ECA1CHG101I	Electrolytic, 100 μ F 16WV	
C657	ECA1CHG101I	Electrolytic, 100 μ F 16WV	
C658	ECA1CHG101I	Electrolytic, 100 μ F 16WV	
C701	YECUS1H102KX	Ceramic, 0.001 μ F 50WV	
C702	F1J1H102A034	Ceramic, 1000PF 50WV	
C703	YECUS1H562KX	Ceramic, 0.0056 μ F 50WV	
C704	YECUS1H562KX	Ceramic, 0.0056 μ F 50WV	
C705	ECA1CHG222B	Electrolytic, 2200 μ F 16WV	
C706	YECUS1C104KX	Ceramic, 0.1 μ F 16WV	
C707	YECUS1H103KX	Ceramic, 0.01 μ F 50WV	
C710	ECA1CHG332	Electrolytic, 3300 μ F 16WV	
C711	ECA1CHG222B	Electrolytic, 2200 μ F 16WV	
C712	YECUZ1C104KX	Ceramic, 0.1 μ F 16WV	
C713	YECSV1CF105R	Tantalum, 1 μ F 16WV	
C714	ECA1CHG331B	Electrolytic, 330 μ F 16WV	
C731	YECUS1H391JM	Ceramic, 390PF 50WV	
C732	EEUFA1C471LB	Electrolytic, 470 μ F 16WV	
C733	EEUFA1C471LB	Electrolytic, 470 μ F 16WV	
C735	YECUU1C106ZF	Ceramic, 10 μ F 16WV	
C736	F1K1A1060001	Ceramic, 10 μ F 10WV	
C737	YECSW1C106MS	Tantalum, 10 μ F 16WV	
C738	YECUS1C104KX	Ceramic, 0.1 μ F 16WV	
C739	YECSW1C106MS	Tantalum, 10 μ F 16WV	
C740	YECSW1C106MS	Tantalum, 10 μ F 16WV	
C741	YECUS1C104KX	Ceramic, 0.1 μ F 16WV	
C742	YECUV1A225KX	Ceramic, 2.2 μ F 10WV	
C750	YECUS1A105KX	Ceramic, 1 μ F 10WV	
C751	EEUFA1C561B	Electrolytic, 560 μ F 16WV	
C753	YECUS1H103KX	Ceramic, 0.01 μ F 50WV	
C754	YECUU1C475KX	Tantalum, 4.7 μ F 16WV	
C755	YECUS1C104KX	Ceramic, 0.1 μ F 16WV	
C756	YECSV1AM475R	Tantalum, 4.7 μ F 10WV	
C757	YECUZ1C104KX	Ceramic, 0.1 μ F 16WV	

Ref. No.	Part No.	Part Name & Description	Remarks
C758	YECUS1C104KX	Ceramic, 0.1 μF 16WV	
C759	YECUS1H151JM	Ceramic, 150PF 50WV	
C760	YECUS1H103KX	Ceramic, 0.01 μF 50WV	
C761	YECUU1C475KX	Tantalum, 4.7 μF 16WV	
C762	EEFCD0J470R	Electrolytic, 47 μF 6.3WV	
C763	EEFUE0J151R	Electrolytic, 150 μF 6.3WV	
C764	YECUS1H103KX	Ceramic, 0.01 μF 50WV	
C765	YECUS1H103KX	Ceramic, 0.01 μF 50WV	
C766	YECUU1C475KX	Tantalum, 4.7 μF 16WV	
C767	EEFUE0J151R	Electrolytic, 150 μF 6.3WV	
C768	EEFCD1B220R	Electrolytic, 22 μF 12.5WV	
C769	YECUS1H103KX	Ceramic, 0.01 μF 50WV	
C770	YECSW1C106MS	Tantalum, 10 μF 16WV	
C771	YECSW1C106MS	Tantalum, 10 μF 16WV	
C772	YECUS1C104KX	Ceramic, 0.1 μF 16WV	
C773	YECUS1A105KX	Ceramic, 1 μF 10WV	
C810	YECUS1H103KX	Ceramic, 0.01 μF 50WV	
C841	YECUS1H471JC	Ceramic, 470PF 50WV	
C842	YECUS1H471JC	Ceramic, 470PF 50WV	
C843	YECUZ1E104ZF	Ceramic, 0.1 μF 25WV	
C901	YECUZ1C104KX	Ceramic, 0.1 μF 16WV	
C902	YECUS1C104KX	Ceramic, 0.1 μF 16WV	
C903	YECUZ1H103KX	Ceramic, 0.01 μF 50WV	
C904	YECUS1C104KX	Ceramic, 0.1 μF 16WV	
C905	F1K1A1060001	Ceramic, 10 μF 10WV	
C906	F1H1E103A011	Ceramic, 0.01 μF 25WV	
C910	YECUZ1H270JC	Ceramic, 270PF 50WV	
C955	F1K1A1060001	Ceramic, 10 μF 10WV	
C956	YECUU1A226ZF	Tantalum, 22 μF 10WV	
LC301	YECCL51R506T	Capacitor	
LC411	F1Z1E4710001	Capacitor	
LC414	YECCL39R222T	Capacitor	
LC801	F1Z1E4710001	Capacitor	
LC901	YECCL40R222T	Capacitor	
RESISTORS			
C214	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
FB419	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
J402	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
R201	ERJ6GEYJ182	Chip, 1.8k Ω 1/10W	
R204	ERJ6GEYJ182	Chip, 1.8k Ω 1/10W	
R206	ERJ6GEYJ152	Chip, 1.5k Ω 1/10W	

Ref. No.	Part No.	Part Name & Description	Remarks
R301	ERJ6GEYJ182	Chip, 1.8k Ω 1/10W	
R304	ERJ6GEYJ182	Chip, 1.8k Ω 1/10W	
R306	ERJ6GEYJ152	Chip, 1.5k Ω 1/10W	
R310	ERJ3GEYJ222V	Chip, 2.2k Ω 1/16W	
R311	ERJ3GEYJ153V	Chip, 15k Ω 1/16W	
R313	ERJ3GEYJ333V	Chip, 33k Ω 1/16W	
R314	ERJ3GEYJ472V	Chip, 4.7k Ω 1/16W	
R315	ERJ3GEYJ153V	Chip, 15k Ω 1/16W	
R316	ERJ3GEYJ822V	Chip, 8.2k Ω 1/16W	
R317	ERJ3GEYJ103V	Chip, 10k Ω 1/16W	
R318	ERJ3GEYJ330V	Chip, 33 Ω 1/16W	
R319	ERJ3GEYJ104V	Chip, 100k Ω 1/16W	
R320	ERJ3GEYJ561V	Chip, 560 Ω 1/16W	
R321	ERJ3GEYJ182V	Chip, 1.8k Ω 1/16W	
R322	ERJ6GEYJ184	Chip, 180k Ω 1/10W	
R323	ERJ6GEYJ561	Chip, 560 Ω 1/10W	
R324	ERJ3GEYJ181V	Chip, 180 Ω 1/16W	
R325	ERJ3GEYJ822V	Chip, 8.2k Ω 1/16W	
R326	ERJ6GEYJ103	Chip, 10k Ω 1/10W	
R327	ERJ6GEYJ561	Chip, 560 Ω 1/10W	
R329	ERJ3GEYJ103V	Chip, 10k Ω 1/16W	
R350	ERJ3GEYJ473V	Chip, 47k Ω 1/16W	
R351	ERJ3GEYJ473V	Chip, 47k Ω 1/16W	
R354	ERJ6GEYJ103	Chip, 10k Ω 1/10W	
R355	ERJ6GEYJ474	Chip, 470k Ω 1/10W	
R356	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
R401	ERJ12YJ2R0H	Chip, 2 Ω 1/2W	
R402	ERJ3GEYJ152V	Chip, 1.5k Ω 1/16W	
R403	ERJ6GEYJ153	Chip, 15k Ω 1/10W	
R404	ERJ3GEYJ561V	Chip, 560 Ω 1/16W	
R405	ERJ3GEYJ473V	Chip, 47k Ω 1/16W	
R406	D1BD82010001	Metal Film 8.2k Ω 1/10W	
R407	ERJ6RBD222V	Chip, 2.2k Ω 1/10W	
R408	ERJ3GEYJ472V	Chip, 4.7k Ω 1/16W	
R409	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
R410	ERJ3GEYJ105V	Chip, 1k Ω 1/16W	
R411	ERJ3GEYJ103V	Chip, 10k Ω 1/16W	
R412	ERJ6GEYJ472	Chip, 4.7k Ω 1/10W	
R413	ERJ6GEYJ473	Chip, 47k Ω 1/10W	
R414	ERJ6GEYJ102	Chip, 1k Ω 1/10W	
R415	ERJ6GEYJ332	Chip, 3.3k Ω 1/10W	
R416	ERJ6GEYJ221	Chip, 220 Ω 1/10W	
R417	ERJ6GEYJ102	Chip, 1k Ω 1/10W	
R418	ERJ6GEYJ223	Chip, 22k Ω 1/10W	
R419	ERJ6GEYJ560	Chip, 56 Ω 1/10W	

Ref. No.	Part No.	Part Name & Description	Remarks
R420	ERJ6GEYJ473	Chip, 47k Ω 1/10W	
R421	ERJ6GEYJ562	Chip, 5.6k Ω 1/10W	
R422	ERJ6GEYJ473	Chip, 47k Ω 1/10W	
R423	ERJ6GEYJ103	Chip, 10k Ω 1/10W	
R424	ERJ6GEYJ102	Chip, 1k Ω 1/10W	
R425	ERJ6GEYJ102	Chip, 1k Ω 1/10W	
R430	ERJ3GEYJ332V	Chip, 3.3 Ω 1/16W	
R431	ERJ3GEYJ562V	Chip, 5.6k Ω 1/16W	
R432	ERJ6GEYJ222	Chip, 2.2k Ω 1/10W	
R433	ERJ6GEYJ332	Chip, 3.3k Ω 1/10W	
R434	ERJ6GEYJ333	Chip, 33k Ω 1/10W	
R435	ERJ3GEYJ101V	Chip, 100 Ω 1/16W	
R436	ERJ6GEYJ683	Chip, 68k Ω 1/10W	
R437	ERJ6GEYJ472	Chip, 4.7k Ω 1/10W	
R438	ERJ6RED824V	Chip, 820k Ω 1/16W	
R439	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
R440	ERJ6RED224V	Chip, 220k Ω 1/10W	
R441	YER122P5602D	Metal Film, 56k Ω 1/10W	
R442	ERJ3GEYJ103V	Chip, 10k Ω 1/16W	
R443	ERJ3GEYJ103V	Chip, 10k Ω 1/16W	
R444	ERJ6GEYJ474	Chip, 470k Ω 1/10W	
R445	ERJ3GEYJ104V	Chip, 100k Ω 1/16W	
R446	ERJ3GEYJ823V	Chip, 82k Ω 1/16W	
R447	ERJ3GEYJ684V	Chip, 680k Ω 1/16W	
R448	ERJ3GEYJ684V	Chip, 680k Ω 1/16W	
R449	ERJ3GEYJ564V	Chip, 560k Ω 1/16W	
R450	ERJ3GEYJ122V	Chip, 1.2k Ω 1/16W	
R451	ERJ6GEYJ471	Chip, 470 Ω 1/10W	
R452	ERJ6GEYJ102	Chip, 1k Ω 1/10W	
R453	ERJ6GEYJ561	Chip, 560 Ω 1/10W	
R454	ERJ3GEYJ102V	Chip, 1k Ω 1/16W	
R455	ERJ6GEYJ104	Chip, 100k Ω 1/10W	
R456	ERJ6GEYJ223	Chip, 22k Ω 1/10W	
R457	ERJ6GEYJ472	Chip, 4.7k Ω 1/10W	
R458	ERJ3GEYJ472V	Chip, 4.7k Ω 1/16W	
R459	ERJ6GEYJ472	Chip, 4.7k Ω 1/10W	
R460	ERJ3GEYJ103V	Chip, 10k Ω 1/16W	
R461	ERJ6GEYJ472	Chip, 4.7k Ω 1/10W	
R462	ERJ6GEYJ472	Chip, 4.7k Ω 1/10W	
R463	ERJ3GEYJ473V	Chip, 47k Ω 1/16W	
R464	ERJ6GEYJ101	Chip, 100 Ω 1/10W	
R465	ERJ6GEYJ223	Chip, 22k Ω 1/10W	
R466	ERJ6GEYJ223	Chip, 22k Ω 1/10W	
R469	ERJ8GEYJ222V	Chip, 2.2k Ω 1/8W	
R470	ERJ6GEYJ472	Chip, 4.7k Ω 1/10W	

Ref. No.	Part No.	Part Name & Description	Remarks
R471	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
R472	ERJ3GEYJ220V	Chip, 22 Ω 1/16W	
R473	ERJ3GEYJ220V	Chip, 22 Ω 1/16W	
R474	ERJ3GEYJ102V	Chip, 1k Ω 1/16W	
R475	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
R476	ERJ3GEYJ102V	Chip, 1k Ω 1/16W	
R477	ERJ6GEYJ472	Chip, 4.7k Ω 1/10W	
R481	ERJ6GEYJ473	Chip, 47k Ω 1/10W	
R482	ERJ6GEYJ473	Chip, 47k Ω 1/10W	
R483	ERJ6GEYJ473	Chip, 47k Ω 1/10W	
R484	ERJ6GEYJ103	Chip, 10k Ω 1/10W	
R485	ERJ3GEYJ102V	Chip, 1k Ω 1/16W	
R486	ERJ6GEYJ473	Chip, 47k Ω 1/10W	
R489	ERJ6GEYJ473	Chip, 47k Ω 1/10W	
R490	ERJ6GEYJ472	Chip, 4.7k Ω 1/10W	
R491	ERJ6GEYJ473	Chip, 47k Ω 1/10W	
R492	ERJ6GEYJ103	Chip, 10k Ω 1/10W	
R493	ERJ6GEYJ473	Chip, 47k Ω 1/10W	
R636	ERJ6GEYJ750V	Chip, 75 Ω 1/10W	
R637	ERJ6GEYJ750V	Chip, 75 Ω 1/10W	
R638	ERJ6GEYJ750V	Chip, 75 Ω 1/10W	
R639	ERJ6GEYJ750V	Chip, 75 Ω 1/10W	
R640	ERJ6GEYJ750V	Chip, 75 Ω 1/10W	
R703	ERJ6GEYJ470	Chip, 47 Ω 1/10W	
R704	ERJ6ENF1502	Chip, 15k Ω 1/10W	
R705	ERJ6ENF1503	Chip, 150k Ω 1/10W	
R706	ERJ6ENF3302	Chip, 33k Ω 1/10W	
R707	ERJ6RED824V	Chip, 820k Ω 1/10W	
R708	ERJ6GEYJ223	Chip, 22k Ω 1/10W	
R712	ERJ6GEYJ562	Chip, 5.6k Ω 1/10W	
R714	ERJ12YJ152H	Chip, 1.5k Ω 1/2W	
R715	ERJ12YJ152H	Chip, 1.5k Ω 1/2W	
R716	ERJ6GEYJ391	Chip, 390 Ω 1/10W	
R718	ERJ6GEYJ103	Chip, 10k Ω 1/10W	
R731	ERJ6GEYJ101	Chip, 100 Ω 1/10W	
R732	ERJ6GEYJ183	Chip, 18k Ω 1/10W	
R733	ERJ6GEYJ332	Chip, 3.3k Ω 1/10W	
R734	ERJ3GEYJ102V	Chip, 1k Ω 1/16W	
R735	ERJ6ENF3900	Chip, 390 Ω 1/10W	
R736	ERJ6ENF2701	Chip, 2.7k Ω 1/10W	
R740	ERJ6GEYJ473	Chip, 47k Ω 1/10W	
R741	ERJ6GEYJ100	Chip, 10 Ω 1/10W	
R742	ERJ6GEYJ104	Chip, 100k Ω 1/10W	
R743	ERJ6GEYJ224	Chip, 220k Ω 1/10W	
R746	ERJL12KJ50MU	Chip, 0.05 Ω 1/2W	

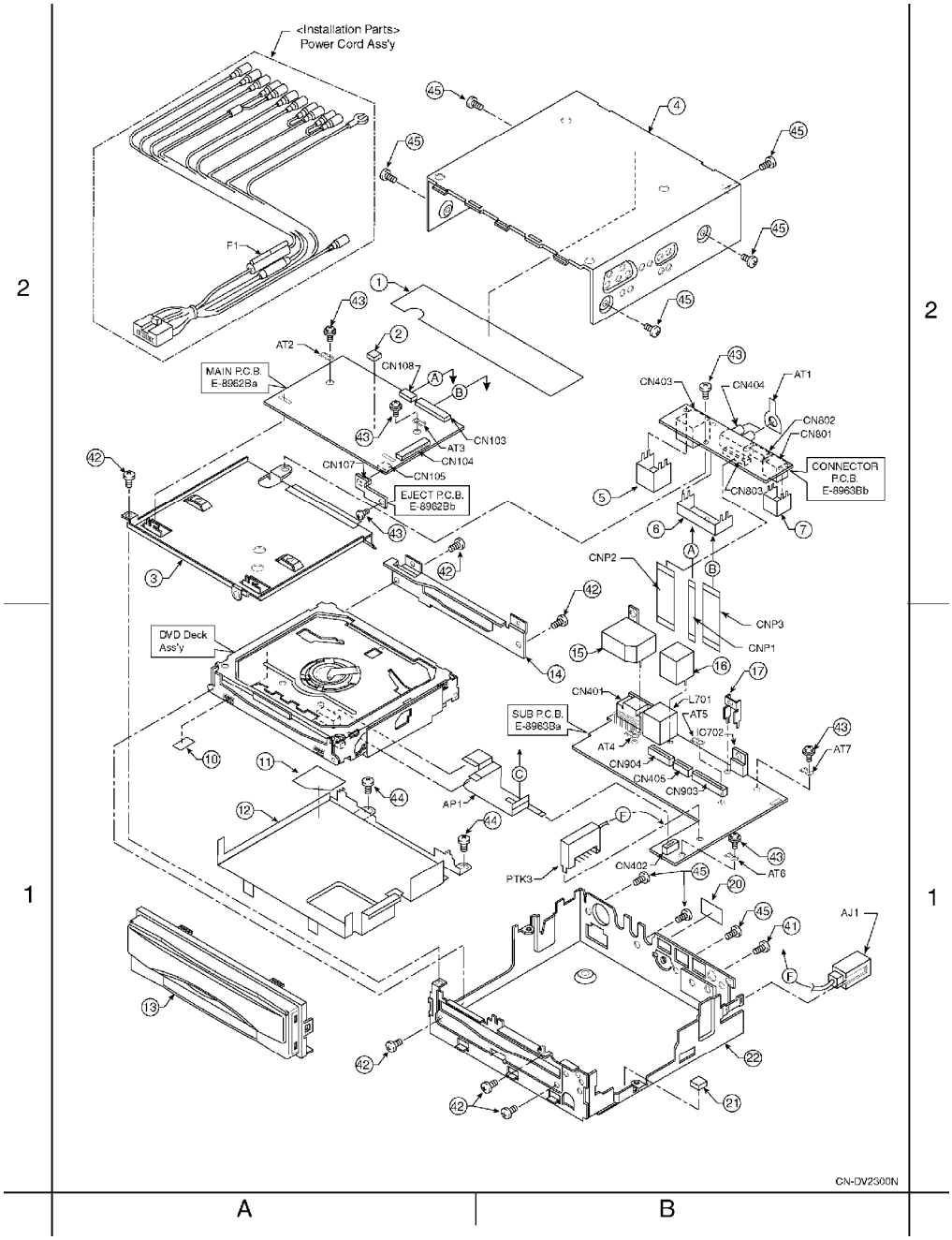
Ref. No.	Part No.	Part Name & Description	Remarks
R747	ERJL12KJ50MU	Chip, 0.05 Ω 1/2W	
R748	ERJ6ENF3901	Chip, 3.9k Ω 1/10W	
R749	ERJ6ENF1002	Chip, 10k Ω 1/10W	
R750	ERJL12KJ50MU	Chip, 0.05 Ω 1/2W	
R751	ERJL12KJ50MU	Chip, 0.05 Ω 1/2W	
R752	ERJ6ENF1002	Chip, 10k Ω 1/10W	
R753	ERJ6ENF1001	Chip, 1k Ω 1/16W	
R754	ERJ6ENF1002	Chip, 10k Ω 1/10W	
R755	ERJ6GEYJ104	Chip, 100k Ω 1/10W	
R756	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
R762	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
R763	ERJ6ENF4702	Chip, 47k Ω 1/10W	
R802	ERJ3GEYJ332V	Chip, 3.3 Ω 1/16W	
R811	ERJ3GEYJ472V	Chip, 4.7k Ω 1/16W	
R813	ERJ6GEYJ103	Chip, 10k Ω 1/10W	
R814	ERJ6GEYJ101	Chip, 100 Ω 1/10W	
R815	ERJ6GEYJ101	Chip, 100 Ω 1/10W	
R816	ERJ6GEYJ101	Chip, 100 Ω 1/10W	
R817	ERJ6GEYJ103	Chip, 10k Ω 1/10W	
R818	ERJ6GEYJ103	Chip, 10k Ω 1/10W	
R819	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
R820	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
R827	ERJ6GEYJ103	Chip, 10k Ω 1/10W	
R841	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
R901	ERJ3GEYJ152V	Chip, 1.5k Ω 1/16W	
R902	ERJ3GEYJ104V	Chip, 100k Ω 1/16W	
R903	ERJ3GEYJ473V	Chip, 47k Ω 1/16W	
R959	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
R965	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
R966	ERJ6GEYJ153	Chip, 15k Ω 1/10W	
R967	ERJ6GEYJ103	Chip, 10k Ω 1/10W	
R968	ERJ6GEYJ103	Chip, 10k Ω 1/10W	
R969	ERJ6GEYJ103	Chip, 10k Ω 1/10W	
R970	ERJ6GEYJ102	Chip, 1k Ω 1/10W	
CONNECTORS			
CN401	K1FA116B0021	Connector, 16P	
CN402	YEAE5261006	Connector, 6P	
CN403	YEAE012238	Connector, 13P DIN	
CN404	YEAEPJ081134	Connector, 2P RCA	
CN405	YEAE5261006	Connector, 6P	
CN801	YEAE012733	Connector, 8P	
CN802	YEAE5339008	Connector, 8P	
CN803	K1MN40B00006	Connector, 40P	
CN903	K1MN50A00004	Connector, 50P	
CN904	K1MN40A00005	Connector, 40P	

Ref. No.	Part No.	Part Name & Description	Remarks
CERAMIC FILTERS			
FB425	J0JCC0000010	Noise Filter,	
FB428	J0JCC0000010	Noise Filter,	
R758	J0JKC0000002	Noise Filter,	
R759	J0JKC0000002	Noise Filter,	
R760	J0JKC0000002	Noise Filter,	
R761	J0JKC0000002	Noise Filter,	
COILS			
FB301	YELTBLM2B601	Coil	
FB401	YELTBLM2B601	Coil	
FB409	YELTBLM2B601	Coil	
FB410	YELTBLM2B601	Coil	
FB411	YELTBLM2B601	Coil	
FB412	YELTBLM2B601	Coil	
FB413	YELTBLM2B601	Coil	
FB414	YELTBLM2B601	Coil	
FB415	YELTBLM2B601	Coil	
FB416	YELTBLM2B601	Coil	
FB417	YELTBLM2B601	Coil	
FB418	YELTBLM2B601	Coil	
FB420	YELTBLM21P3S	Coil	
FB421	YELTBLM21P3S	Coil	
FB422	YELTBLM2B601	Coil	
FB423	YELTBLM2B601	Coil	
FB427	YELTBLM21P3S	Coil	
FB430	YELTBLM21P3S	Coil	
FB431	YELTBLM21P3S	Coil	
FB432	YELTBLM2B601	Coil	
FB610	YELTBLM2B601	Coil	
FB611	YELTBLM2B601	Coil	
FB612	YELTBLM2B601	Coil	
FB613	YELTBLM2B601	Coil	
FB614	YELTBLM1B601	Coil	
FB701	YELTBLM2B601	Coil	
FB702	YELTBLM2B601	Coil	
FB703	YELTBLM2B601	Coil	
FB704	YELTBLM2B601	Coil	
FB710	YELTBLM21P3S	Coil	
FB711	YELTBLM21P3S	Coil	
FB712	YELTBLM21P3S	Coil	
FB713	YELTBLM21P3S	Coil	
FB802	YELTBLM21P3S	Coil	
FB803	YELTBLM21P3S	Coil	
FB804	YELTBLM21P3S	Coil	
FB805	YELTBMHS800T	Coil	
FB809	YELTBLM21P3S	Coil	
FB816	YELTBLM21P3S	Coil	
FB901	YELTBLM2B601	Coil	
FB920	YELTBLM21P3S	Coil	
L401	YELT03N220JT	Coil	

Ref. No.	Part No.	Part Name & Description	Remarks
L701	YETQ020F091	Coil	
L705	ELC05D220	Coil	
L706	ELC05D220	Coil	
L710	ELC12E101	Coil	
L711	ELC12E101	Coil	
L712	ELC10B220	Coil	
L801	YELT03N220JT	Coil	
L902	YELT03N220JT	Coil	
PRINTINGS			
	YEFM283800	Operating Instructions	
	YEFM292793	Operating Instruction	
	YEFM292814	Operating Instruction	
INSTALLATION PARTS			
	YEAJ071269	Cord w/Plug, RGB	
	YEAJ011698	Power Cord	
	YEAJ071138	Cord w/Plug, Speed	
	YEFG021010A	Front Brakect	
	YEFG021010A	Front Brakect	
	YEFV03557	Magnetic Shield	
	YEP9BS1174	Screws Kit	
	YEP9FX167	Remote Controller Kit	
	YEP9FZ2984	GPS Antenna	
	YEP9FZ2537	Electro Tap	
	YEP9FZ3141	Cord Clamper	
MISCELLANEOUS			
F1	XBB1F50NS5	Fuse, 5A	⚠
AP1	YEAP2770	Flexible P.C.B.	
AT1	YEAT03455	Terminal	
AT2-7	YEATSD00405	Bracket	
BA401	CR2032/G5A	Battery	⚠
CNP1	K9ZZ00000789	Connector, 6P	
CNP2	K9ZZ00000790	Connector, 40P	
CNP3	K9ZZ00000791	Connector, 50P	
1	YEFV011899	Insulator, Upper Cover	
2	YEFL02629	Spacer, Main	
3	YEFV03635	Magnetic Shield, Main P.C.B.	
4	YEFA031805	Upper Cover	
5	YEFX0214531	Bracket, CN403	
6	YEFX0214535	Bracket, CN404	
7	YEFX0215145	Bracket, CN801	
10	YEFS011725	Pad, Deck	
11	YEFV012062A	Insulator, Deck	
12	YEFV03633	Magnetic Shield, Deck	
13	YEFC027436	Escutcheon Ass'y	
14	YEFX0215144	Bracket, Deck	
15	YEFX0214532	Bracket, CN401	

Ref. No.	Part No.	Part Name & Description	Remarks
16	YEFV03472	Magnetic Shield, L701	
17	YEFX0214533	Bracket, IC702	
20	YEFM99594	Seal	
21	YEFL02625	Spacer, Chassis	
22	YEFA011982AK	Chassis Ass'y	
41	YEJT03008	Tapping Screw, 3mm * 10mm	
43	YEJT03133	Tapping Screw, 2.6mm * 6mm	
44	YEJT03195	Tapping Screw, 2.6mm * 7mm	
42	YEJT03190	Tapping Screw, 2.6mm * 5mm	
45	XTB3+6FFX	Tapping Screw, 3mm * 6mm	

12. EXPLODED VIEW (Unit)



13. DVD PLAYER PARTS

Notes :

1. **Be sure to make your orders of replacement parts according to this list.**
2. **Important safety notice: Components, identified by ⚠ mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.**
3. **Location keys in the remarks column indicates the general**

location of the parts shown in the exploded drawing, as in a road map.

4. **The marking (RTL) indicates that Retention Time is limited for this item. After the discontinuation of assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependent on the type of assembly, and in accordance with the laws governing part and product retention. After the end of this period, the assembly will no longer be available.**

Ref. No.	Part No.	Part Name & Description	Remarks
DVD Servo Block [E8977C]			
ICs AND TRANSISTORS			
IC101	AN8707FH	IC	
IC102	AN80M18RSPTX	IC	
IC401	MNZS26EDBUB	IC	
IC402	MN13821JP	IC	
IC451	MN102H60GAB	IC	
IC453	C3EBDG000012	IC	
IC454	C0JBAA000148	IC	
IC901	AN8785SB-E1	IC	
IC951	C0GBE0000001	IC	
Q101	2SB766ATX	Transistor	
Q102	B1GBCFJJ0002	Transistor	
Q103	YEANA114EKTX	Transistor	
Q451	B1GBGEEA0001	Transistor	
Q452	B3HB00000004	Transistor	
Q453	B3HB00000004	Transistor	
Q454	B3HB00000004	Transistor	
Q455	B3HB00000004	Transistor	
Q456	B3HB00000004	Transistor	
Q951	B1GBCFNN0004	Transistor	
Q952	2SD244100L	Transistor	
CAPACITORS			
C101	F1G1A104A001	Ceramic, 0.1 μF 10WV	
C102	F1G1A104A001	Ceramic, 0.1 μF 10WV	
C103	F1G1A104A001	Ceramic, 0.1 μF 10WV	
C104	F1G1E221A043	Ceramic, 220PF 25WV	
C105	F1G1H561A401	Ceramic, 560PF 50WV	
C106	F1G1H561A401	Ceramic, 560PF 50WV	
C107	F1G1H101A410	Ceramic, 100PF 50WV	
C108	F1H1E273A011	Ceramic, 0.027 μF 50WV	
C109	F1H1C473A005	Ceramic, 0.047 μF 16WV	
C110	YECUZ1H390JC	Ceramic, 39PF 50WV	
C111	F1G1H101A410	Ceramic, 100PF 50WV	
C112	F1G1H120A408	Ceramic, 12PF 50WV	

Ref. No.	Part No.	Part Name & Description	Remarks
C113	YECUZ1H182KX	Ceramic, 1800PF 50WV	
C114	F1G1H102A401	Ceramic, 100PF 50WV	
C115	F1G1H102A401	Ceramic, 100PF 50WV	
C116	F1G1A104A001	Ceramic, 0.1 μF 10WV	
C117	F1G1A104A001	Ceramic, 0.1 μF 10WV	
C118	YECSW0J476MS	Tantalum, 47 μF 6.3WV	
C119	F1G1A104A001	Ceramic, 0.1 μF 10WV	
C120	F1G1A104A001	Ceramic, 0.1 μF 10WV	
C121	F1G1A104A001	Ceramic, 0.1 μF 10WV	
C122	F1G1A104A001	Ceramic, 0.1 μF 10WV	
C123	YECSW0J476MS	Tantalum, 47 μF 6.3WV	
C124	F1G1H331A401	Ceramic, 330PF 50WV	
C125	F1G1H222A401	Ceramic, 2200PF 50WV	
C126	F1G1H561A401	Ceramic, 560PF 50WV	
C127	F1G1H561A401	Ceramic, 560PF 50WV	
C128	F3H1C476A003	Tantalum, 47 μF 16WV	
C129	F1G1A104A001	Ceramic, 0.1 μF 10WV	
C130	F3H1C476A003	Tantalum, 47 μF 16WV	
C131	F1G1A104A001	Ceramic, 0.1 μF 10WV	
C132	EEFCD1B220R	Electrolytic, 22 μF 12.5WV	
C133	EEFCD0J470R	Electrolytic, 47 μF 6.3WV	
C134	EEFCD0J470R	Elecrtolytic, 47 μF 6.3WV	
C135	F1G1A104A001	Ceramic, 0.1 μF 10WV	
C136	EEFCD0J470R	Electrolytic, 47 μF 6.3WV	
C137	F1G1A104A001	Ceramic, 0.1 μF 10WV	
C138	EEFCD0J470R	Electrolytic, 47 μF 6.3WV	
C139	F1G1A104A001	Ceramic, 0.1 μF 10WV	
C140	F1H0J1050010	Ceramic, 10 μF 6.3WV	
C141	F1G1A104A001	Ceramic, 0.1 μF 10WV	
C142	F3H1C476A003	Tantalum, 47 μF 16WV	
C401	F1G1H220A408	Ceramic, 22PF 50WV	
C402	F1G1H220A408	Ceramic, 22PF 50WV	
C403	F1G1C103A033	Ceramic, 0.01 μF 16WV	
C404	F1G1C103A033	Ceramic, 0.01 μF 16WV	
C405	F1G1A104A001	Ceramic, 0.1 μF 10WV	
C406	F1G1A104A001	Ceramic, 0.1 μF 10WV	
C407	F1G1C103A033	Ceramic, 0.01 μF 16WV	
C408	F1G1A104A001	Ceramic, 0.1 μF 10WV	
C409	F1G1A104A001	Ceramic, 0.1 μF 10WV	
C410	F1G1A104A001	Ceramic, 0.1 μF 10WV	
C411	F1G1A104A001	Ceramic, 0.1 μF 10WV	

Ref. No.	Part No.	Part Name & Description	Remarks
C412	F1G1A104A001	Ceramic, 0.1 μ F 10WV	
C413	F1G1A104A001	Ceramic, 0.1 μ F 10WV	
C414	F3H1C476A003	Tantalum, 47 μ F 16WV	
C415	F1G1C223A033	Ceramic, 0.022 μ F 16WV	
C417	F1G1H470A058	Ceramic, 47PF 50WV	
C418	F1G1A104A001	Ceramic, 0.1 μ F 10WV	
C419	F1G1H102A401	Ceramic, 100PF 50WV	
C420	YECUZ1H562KX	Ceramic, 5600PF 50WV	
C421	F1G1H102A401	Ceramic, 1000PF 50WV	
C422	F1G1H102A401	Ceramic, 1000PF 50WV	
C423	F1G1H102A401	Ceramic, 1000PF 50WV	
C424	F1G1A104A001	Ceramic, 0.1 μ F 10WV	
C425	F1G1A104A001	Ceramic, 0.1 μ F 10WV	
C426	F1G1A104A001	Ceramic, 0.1 μ F 10WV	
C427	F1G1A104A001	Ceramic, 0.1 μ F 10WV	
C428	F1G1A104A001	Ceramic, 0.1 μ F 10WV	
C429	F1G1A104A001	Ceramic, 0.1 μ F 10WV	
C430	F1G1A104A001	Ceramic, 0.1 μ F 10WV	
C431	F1G1A104A001	Ceramic, 0.1 μ F 10WV	
C432	F1G1A104A001	Ceramic, 0.1 μ F 10WV	
C433	F1G1A104A001	Ceramic, 0.1 μ F 10WV	
C434	F1G1A104A001	Ceramic, 0.1 μ F 10WV	
C435	F1G1A104A001	Ceramic, 0.1 μ F 10WV	
C436	F1G1C103A033	Ceramic, 0.01 μ F 16WV	
C437	F1G1A104A001	Ceramic, 0.1 μ F 10WV	
C438	F1G1A104A001	Ceramic, 0.1 μ F 10WV	
C439	F1G1A104A001	Ceramic, 0.1 μ F 10WV	
C451	F1G1A104A001	Ceramic, 0.1 μ F 10WV	
C452	F1G1A104A001	Ceramic, 0.1 μ F 10WV	
C453	F1G1A104A001	Ceramic, 0.1 μ F 10WV	
C454	F1G1A104A001	Ceramic, 0.1 μ F 10WV	
C455	F1G1A104A001	Ceramic, 0.1 μ F 10WV	
C456	F1G1A104A001	Ceramic, 0.1 μ F 10WV	
C458	F1G1A104A001	Ceramic, 0.1 μ F 10WV	
C459	F1G1A104A001	Ceramic, 0.1 μ F 10WV	
C901	F1G1A104A001	Ceramic, 0.1 μ F 10WV	
C902	F1G1A104A001	Ceramic, 0.1 μ F 10WV	
C903	YECUZ1C104KX	Ceramic, 0.1 μ F 16WV	
C904	F1G1A104A001	Ceramic, 0.1 μ F 10WV	
C905	F1G1A104A001	Ceramic, 0.1 μ F 10WV	
C906	F1G1H222A401	Ceramic, 2200PF 50WV	

Ref. No.	Part No.	Part Name & Description	Remarks
C951	F1G1C223A033	Ceramic, 0.022 μF 16WV	
C952	F1G1C223A033	Ceramic, 0.022 μF 16WV	
C953	F1G1C223A033	Ceramic, 0.022 μF 16WV	
C954	F1H0J1050010	Ceramic, 1 μF 6.3WV	
C955	YECUZ1C683KX	Ceramic, 0.068 μF 16WV	
C956	F1G1E472A041	Ceramic, 4700PF 25WV	
C957	YECUZ1C683KX	Ceramic, 0.068 μF 16WV	
C958	F1G1E472A041	Ceramic, 4700PF 25WV	
C959	F1G1A104A001	Ceramic, 0.1 μF 10WV	
C960	F1G1A104A001	Ceramic, 0.1 μF 10WV	
C961	F1G1A104A001	Ceramic, 0.1 μF 10WV	
C962	F1H0J1050010	Ceramic, 1 μF 6.3WV	
RESISTORS			
R101	ERJ2GEJ105X	Chip, 1k Ω 1/16W	
R102	ERJ2GEJ105X	Chip, 1k Ω 1/16W	
R103	ERJ2GEJ105X	Chip, 1k Ω 1/16W	
R104	ERJ2GEJ202X	Chip, 2k Ω 1/16W	
R105	ERJ2GEJ123X	Chip, 12k Ω 1/16W	
R106	ERJ2GEJ123X	Chip, 12k Ω 1/16W	
R107	ERJ2GEJ103X	Chip, 10k Ω 1/16W	
R108	ERJ2GEJ392X	Chip, 3.9k Ω 1/16W	
R109	ERJ2GEJ183X	Chip, 18k Ω 1/16W	
R110	ERJ2GEJ303X	Chip, 30k Ω 1/16W	
R111	ERJ2GEJ393X	Chip, 39k Ω 1/16W	
R112	ERJ2GEJ223X	Chip, 22k Ω 1/16W	
R113	ERJ2GEJ512X	Chip, 5.1k Ω 1/16W	
R114	ERJ2GEJ103X	Chip, 10k Ω 1/16W	
R115	ERJ12YJ200H	Chip, 20 Ω 1/2W	
R116	ERJ2GEJ2R2X	Chip, 2.2 Ω 1/16W	
R117	ERJ2GEJ303X	Chip, 30k Ω 1/16W	
R118	ERJ2GEJ562X	Chip, 5.6k Ω 1/16W	
R119	ERJ2GEJ562X	Chip, 5.6k Ω 1/16W	
R120	ERJ2GEJ103X	Chip, 10k Ω 1/16W	
R121	ERJ2GEJ473X	Chip, 47k Ω 1/16W	
R122	ERJ2GEJ474X	Chip, 470k Ω 1/16W	
R401	ERJ2GEJ102X	Chip, 1k Ω 1/16W	
R402	ERJ2GEJ100X	Chip, 10 Ω 1/16W	
R403	ERJ2GEJ470X	Chip, 47 Ω 1/16W	
R404	ERJ2GEJ183X	Chip, 18k Ω 1/16W	
R405	ERJ2GEJ471X	Chip, 470 Ω 1/16W	
R406	ERJ2GEJ105X	Chip, 1k Ω 1/16W	
R407	ERJ2GEJ273X	Chip, 27k Ω 1/16W	

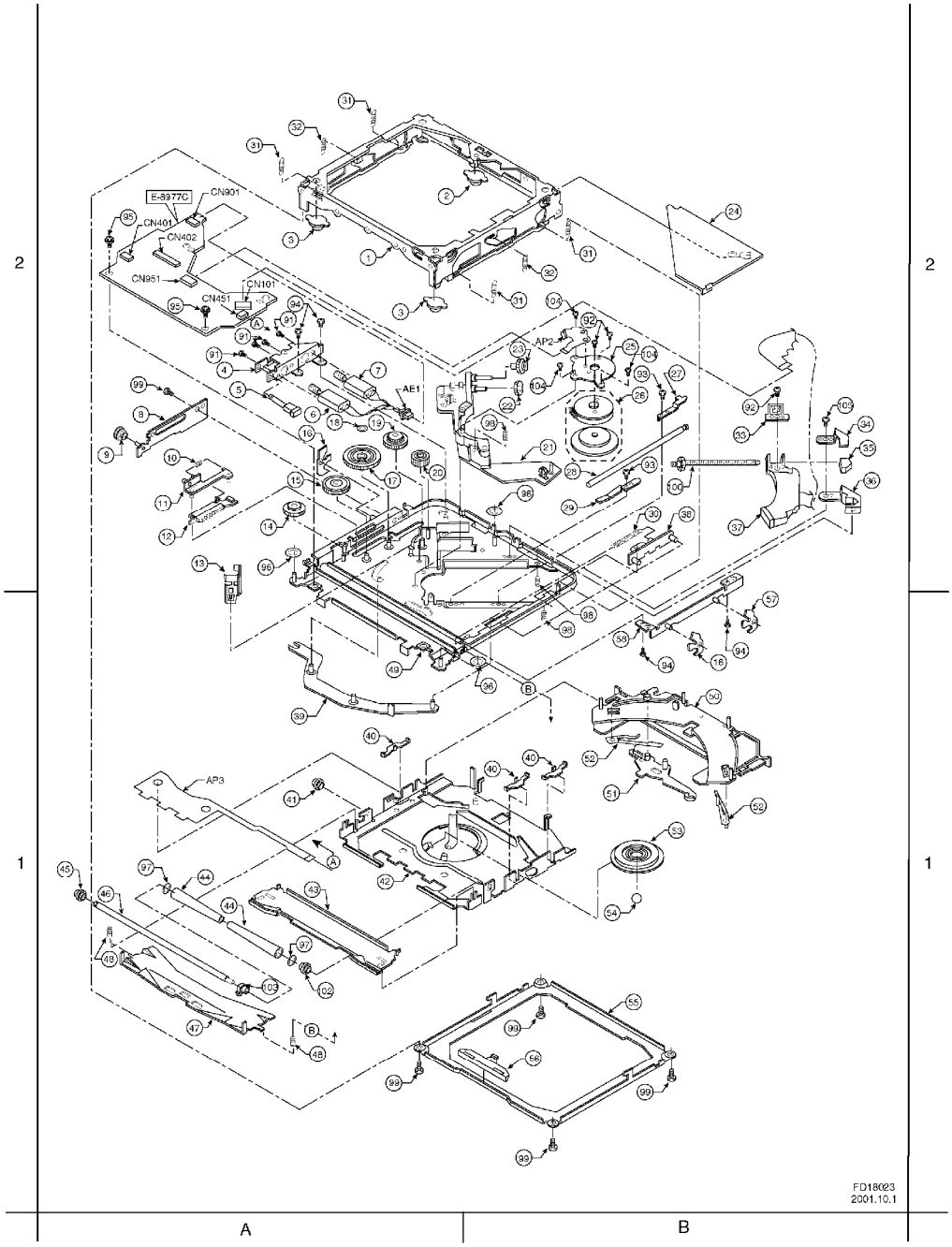
Ref. No.	Part No.	Part Name & Description	Remarks
R408	ERJ2GEJ273X	Chip, 27k Ω 1/16W	
R409	ERJ2GEJ472X	Chip, 4.7k Ω 1/16W	
R410	ERJ2GEJ472X	Chip, 4.7k Ω 1/16W	
R411	ERJ2GEJ104X	Chip, 100k Ω 1/16W	
R412	ERJ2GEJ105X	Chip, 1k Ω 1/16W	
R413	ERJ2GEJ153X	Chip, 15k Ω 1/16W	
R415	ERJ2GEJ103X	Chip, 10k Ω 1/16W	
R416	ERJ2GEJ103X	Chip, 10k Ω 1/16W	
R417	ERJ2GE0R00X	Chip, 0 Ω 1/16W	
R418	ERJ2GEJ103X	Chip, 10k Ω 1/16W	
R419	ERJ2GEJ102X	Chip, 1k Ω 1/16W	
R421	ERJ2GEJ103X	Chip, 10k Ω 1/16W	
R422	ERJ2GEJ103X	Chip, 10k Ω 1/16W	
R423	ERJ2GEJ220X	Chip, 22 Ω 1/16W	
R426	ERJ2GEJ220X	Chip, 22 Ω 1/16W	
R431	ERJ2GEJ103X	Chip, 10k Ω 1/16W	
R432	ERJ2GEJ103X	Chip, 10k Ω 1/16W	
R433	ERJ2GEJ103X	Chip, 10k Ω 1/16W	
R451	ERJ2GEJ181X	Chip, 180 Ω 1/16W	
R452	ERJ2GEJ181X	Chip, 180 Ω 1/16W	
R453	ERJ2GEJ181X	Chip, 180 Ω 1/16W	
R454	ERJ2GEJ181X	Chip, 180 Ω 1/16W	
R455	ERJ2GEJ181X	Chip, 180 Ω 1/16W	
R456	ERJ2GEJ103X	Chip, 10k Ω 1/16W	
R457	ERJ2GEJ103X	Chip, 10k Ω 1/16W	
R458	ERJ2GEJ393X	Chip, 39k Ω 1/16W	
R460	ERJ2GEJ473X	Chip, 47k Ω 1/16W	
R461	ERJ2GEJ473X	Chip, 47k Ω 1/16W	
R462	ERJ2GEJ103X	Chip, 10k Ω 1/16W	
R463	ERJ2GE0R00X	Chip, 0 Ω 1/16W	
R464	ERJ2GEJ102X	Chip, 1k Ω 1/16W	
R465	ERJ2GEJ103X	Chip, 10k Ω 1/16W	
R466	ERJ2GEJ103X	Chip, 10k Ω 1/16W	
R467	ERJ2GEJ332X	Chip, 3.2k Ω 1/16W	
R469	ERJ2GEJ471X	Chip, 470 Ω 1/16W	
R470	ERJ2GEJ473X	Chip, 47k Ω 1/16W	
R471	ERJ2GEJ103X	Chip, 10k Ω 1/16W	
R901	ERJ2GEJ123X	Chip, 12k Ω 1/16W	
R902	ERJ2GEJ562X	Chip, 5.6k Ω 1/16W	
R903	ERJ2GEJ682X	Chip, 6.8k Ω 1/16W	
R905	ERJ2GEJ472X	Chip, 4.7k Ω 1/16W	
R906	ERJ2GEJ103X	Chip, 10k Ω 1/16W	
R907	ERJ2GEJ472X	Chip, 4.7k Ω 1/16W	
R908	ERJ2GEJ102X	Chip, 1k Ω 1/16W	
R909	ERJ2GEJ472X	Chip, 4.7k Ω 1/16W	

Ref. No.	Part No.	Part Name & Description	Remarks
R951	ERJ2GEJ473X	Chip, 47k Ω 1/16W	
R952	ERJ6GEYJR47	Chip, 0.47 Ω 1/16W	
R954	ERJ2GEJ472X	Chip, 4.7k Ω 1/16W	
R955	ERJ2GEJ822X	Chip, 8.2k Ω 1/16W	
R956	ERJ2GEJ331X	Chip, 330 Ω 1/16W	
R957	ERJ2GEJ563X	Chip, 56k Ω 1/16W	
CONNECTORS			
CN101	YEAE5274520	Connector, 20P	
CN401	YEAE5220706	Connector, 6P	
CN402	K1MN40B00022	Connector, 40P	
CN403	K1MN10B00023	Connector, 10P	
CN451	K1MN06B00014	Connector, 6P	
CN901	K1MP04A00002	Connector, 4P	
CN951	YEAE5220704	Connector, 4P	
SWITCHES			
SW451	YEAS09308	Switch	
SW452	ESE102MH4	Switch	
CRYSTALS			
XL401	H0J168500003	Crystal OSC	
CERAMIC FILTERS			
L451	J0JCC0000151	Noise Filter	
COILS			
L101	EXCCET103U	RF Coil	
L102	EXCCET103U	RF Coil	
L103	EXCCET103U	RF Coil	
L104	YELTMZ2S800A	Coil	
RESISTOR NETWORKS			
R420	D1H810340005	Resistor Network	
R424	D1H882040001	Resistor Network	
R425	D1H882040001	Resistor Network	
R427	D1H822040002	Resistor Network	
R428	D1H822040002	Resistor Network	
R429	D1H822040002	Resistor Network	
R430	D1H822040002	Resistor Network	
R459	D1H839340001	Resistor Network	
R468	D1H810340005	Resistor Network	
MECHANICAL PARTS			
MISCELLANEOUS			

Ref. No.	Part No.	Part Name & Description	Remarks
AE1	K1LA04A00007	Connector	
AP2	YEAP2744A	Flexible PC Board	
AP3	YEAP2745A	Sensor FPC	
1	YEFA011860	Main Chassis	
2	YEFS04709	Dumper	
3	YEFS04708	Dumper	
4	YEFX018642	Motor Bracket	
5	YEFX249482	SW Lever	
6	YESAK01033	Traverse Motor Ass'y	
7	YESAK01034	Loading Motor Ass'y	
8	YEFX018641	Gear Bracket	
9	YEFX0031016	Load Gear-1	
10	YEFX0052462	Clamp Rack Spring	
11	YEFX249473	Slide Lever (R) Ass'y	
12	YEFX0031018	Clamp Rack	
13	YEFX0052465A	Leaf Spring	
14	YEFX0031015	Load Gear-2	
15	YEFX0031014	Load Gear-3	
16	YEFX249481A	Clamp Cam	
17	YEFX0031013	Clamp Gear-1	
18	YEFX014073	Snap Ring	
19	YEFX0031012	Clamp Gear-2	
20	YEFX0031011	Clamp Gear-3	
21	YEFW04177	SP Housing	
22	YEFX0031022	Traverse Gear-1	
23	YEFX0031021	Traverse Gear-2	
24	YEFX9992269	FPC Cover	
25	YEFX9992204	SP Plate	
26	YESAK01035	Spindle Motor Ass'y	
27	YEFX0052467	Tilt Spring B	
28	YEFW062595A	Guide Chassis	
29	YEFX0052466	Tilt Spring A	
30	YEFX0052463	Slide Lever Spring	
31	YEFX0052456	Suspension Spring	
32	YEFX0052457	Offset Spring	
33	YEFX9992203	Feed Screw Holder Ass'y	
34	YEFX0052468	Tilt Spring C	
35	YEFW04179	Lead Screw Housing	
36	YEFW04178	OUT Housing	
37	YESSZVED0440	Optical Pickup	
38	YEFX249477	Slide Lever (L) Ass'y	
39	YEFX249479	Connecting Arm	
40	YEFX0052460	Clamp Chassis Leaf Spring	
41	YEFX0031017	Load Gear-4	
42	YEFA011862	Clamp Chassis	
43	YEFX239473A	Disc Guide	
44	YEFX218309A	Rubber Roller	
45	YEFX0031010	Roller Gear	
46	YEFW062578	Roller Shaft	
47	YEFX239472A	Disc Guide	
48	YEFX0052458	Guide Spring	
49	YEFA011864	Suspension Chassis	
50	YEFX239476	Disc Guide	
51	YEFX249472A	Change over Arm	

Ref. No.	Part No.	Part Name & Description	Remarks
52	YEFX0052459	Guide Spring	
53	YEFX9992199	Clamper	
54	YEFX999957	Steel Ball	
55	YEFA011861	Upper Chassis	
56	YEFX239471	Disc Guide	
57	YEFX249488	Clamp Cam	
58	YEFX249475	Cam holder Spring	
91	YEJS06222	Screw, 1.4 * 2mm	
92	XQN17+A25FX	Screw, 1.7 * 2.5mm	
93	YEJS06246	Screw	
94	YEJS06097A	Screw, 2 * 2.5mm	
95	YEJT03152	Tapping Screw	
96	YEJW05156A	Washer	
97	YEJW04128	Washer	
98	YEJS06216	Adjustment Screw	
99	YEJT03131	Tapping Screw, 2.5 * 5mm	
100	YEJT03264A	Lead Screw Ass'y	
102	YEFW04175	Roller Housing	
103	YEFW04176	Roller Housing	
104	YEJS05046	Screw	
105	XYN2+C4FX	Screw, 2 * 4mm	

14. EXPLODED VIEW (DVD Deck)



15. WIRING DIAGRAM

15.1. Main/Eject Block -1 (Top View)

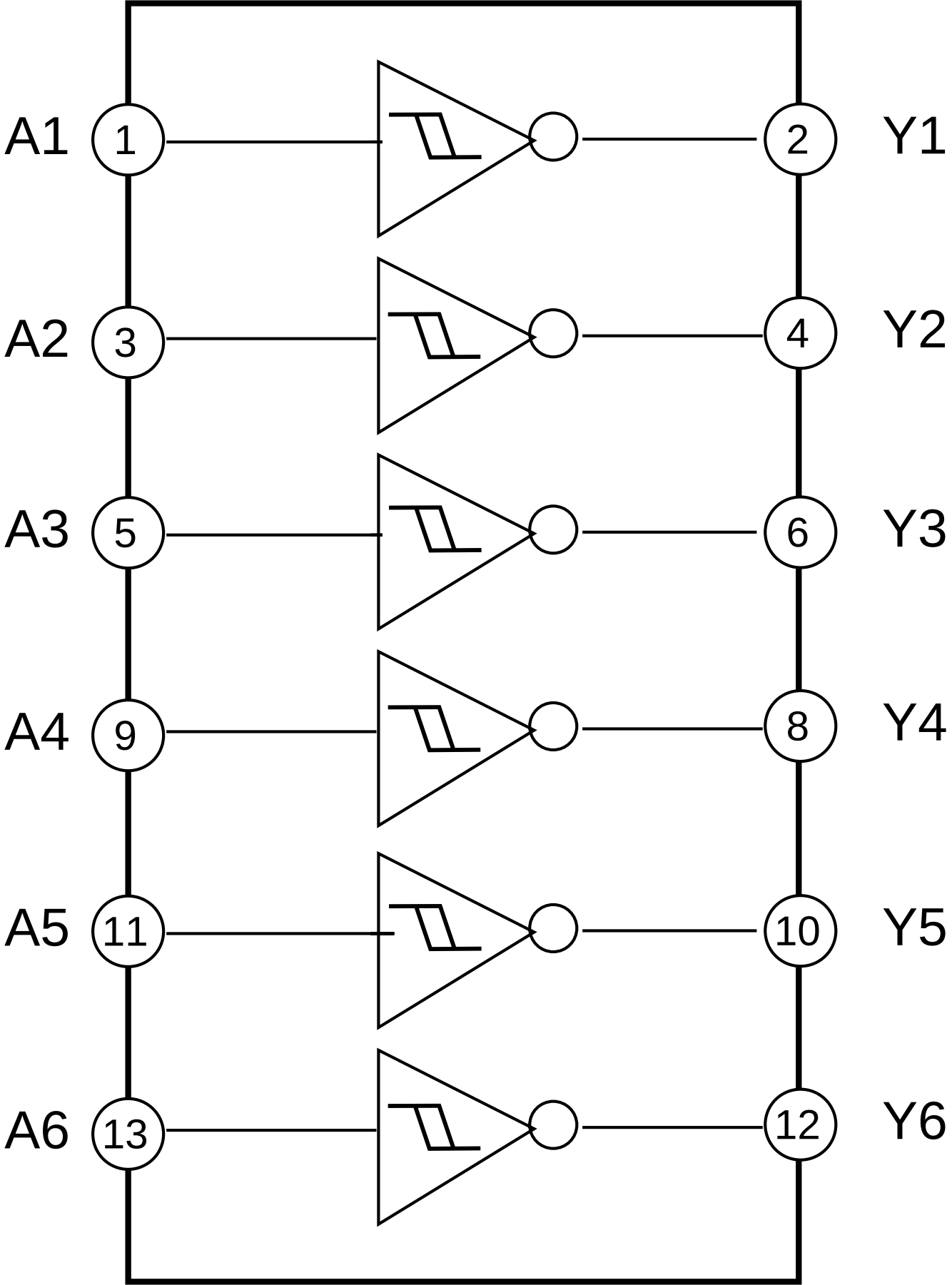
15.2. Main/Eject Block -2 (Bottom View)

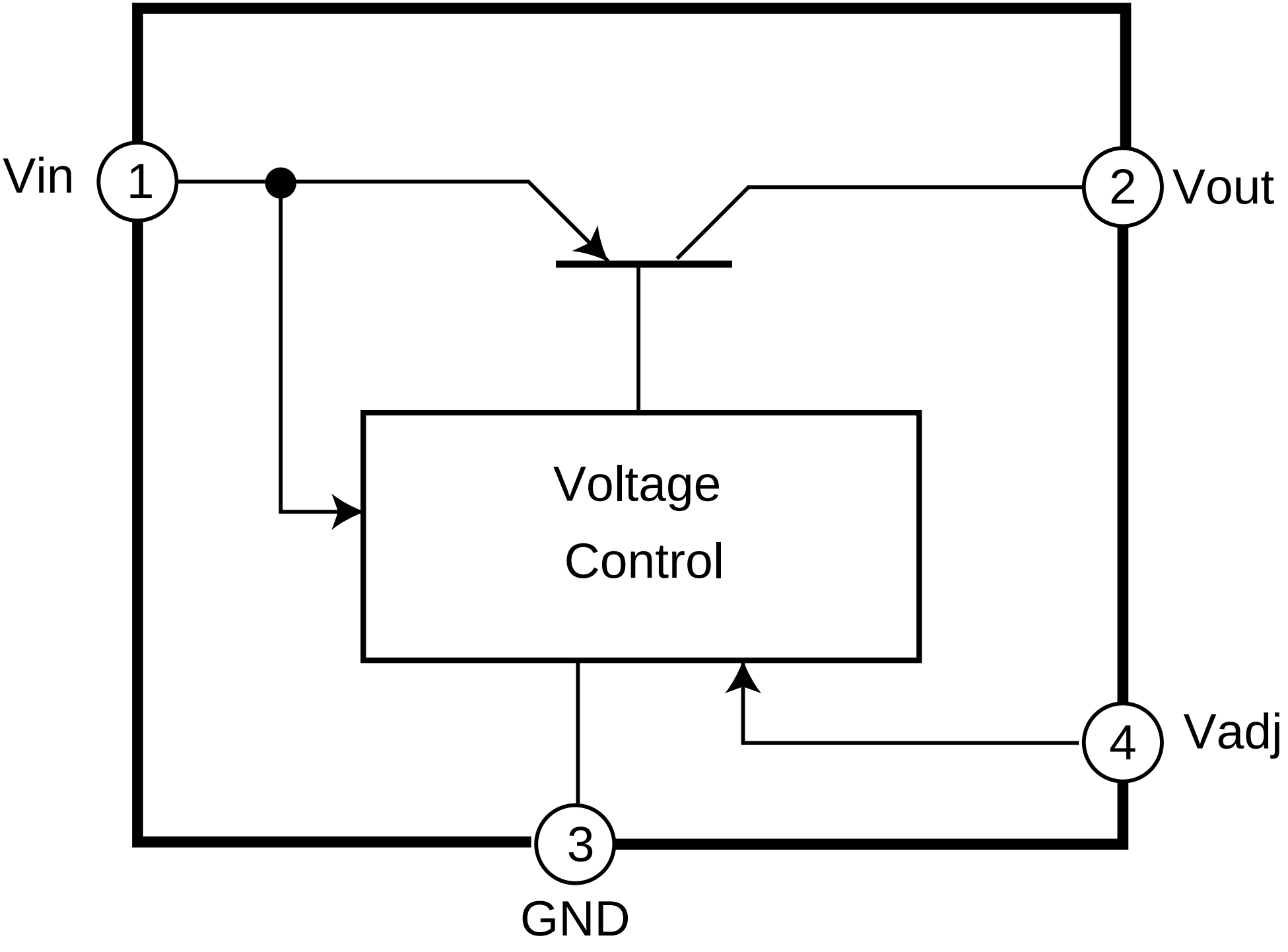
15.3. Sub/Connector Block -1 (Top View)

15.4. Sub/Connector Block -2 (Bottom View)

15.5. DVD Servo Block -1 (Top View)

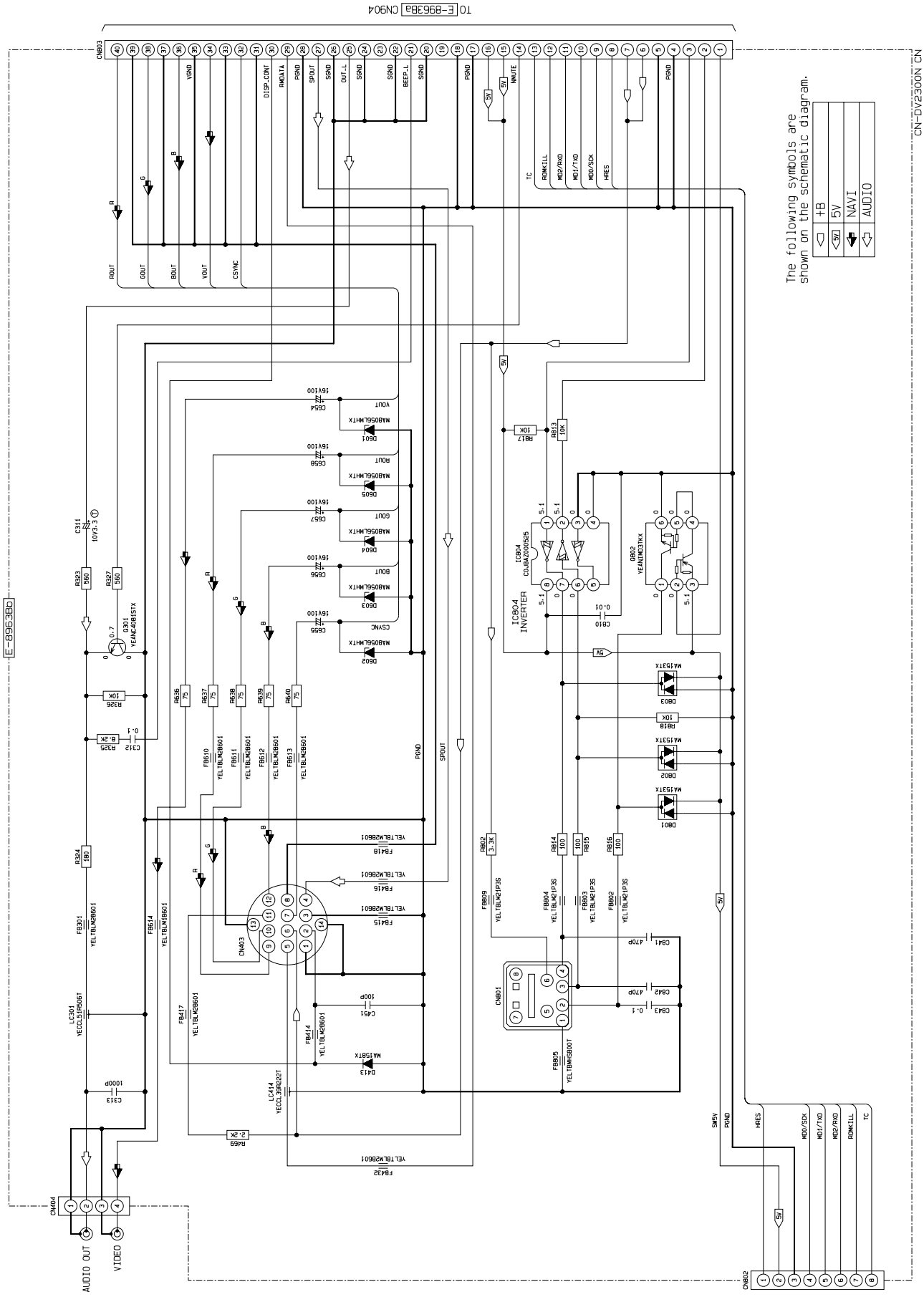
15.6. DVD Servo Block -2 (Bottom View)
16. SCHEMATIC DIAGRAM -1
16.1. Connector Block
17. SCHEMATIC DIAGRAM -2
17.1. Main Block -1
17.2. Main Block -2 / Eject Block
17.3. Sub Block -1
17.4. Sub Block -2
17.5. DVD Servo Block
18. SCHEMATIC DIAGRAM for Printing with Letter Size
18.1. Connector Block
18.2. Main Block -1 (Left Side)
18.3. Main Block -1 (Right Side)
18.4. Main Block -2 / Eject Block (Left Side)
18.5. Main Block -2 / Eject Block (Right Side)
18.6. Sub Block -1 (Left Side)
18.7. Sub Block -1 (Right Side)
18.8. Sub Block -2 (Left Side)
18.9. Sub Block -2 (Right Side)
18.10. DVD Servo Block (Left Side)
18.11. DVD Servo Block (Right Side)


A1
1
2
Y1
A2
3
4
Y2
A3
5
6
Y3
A4
9
8
Y4
A5
11
10
Y5
A6
13
12
Y6

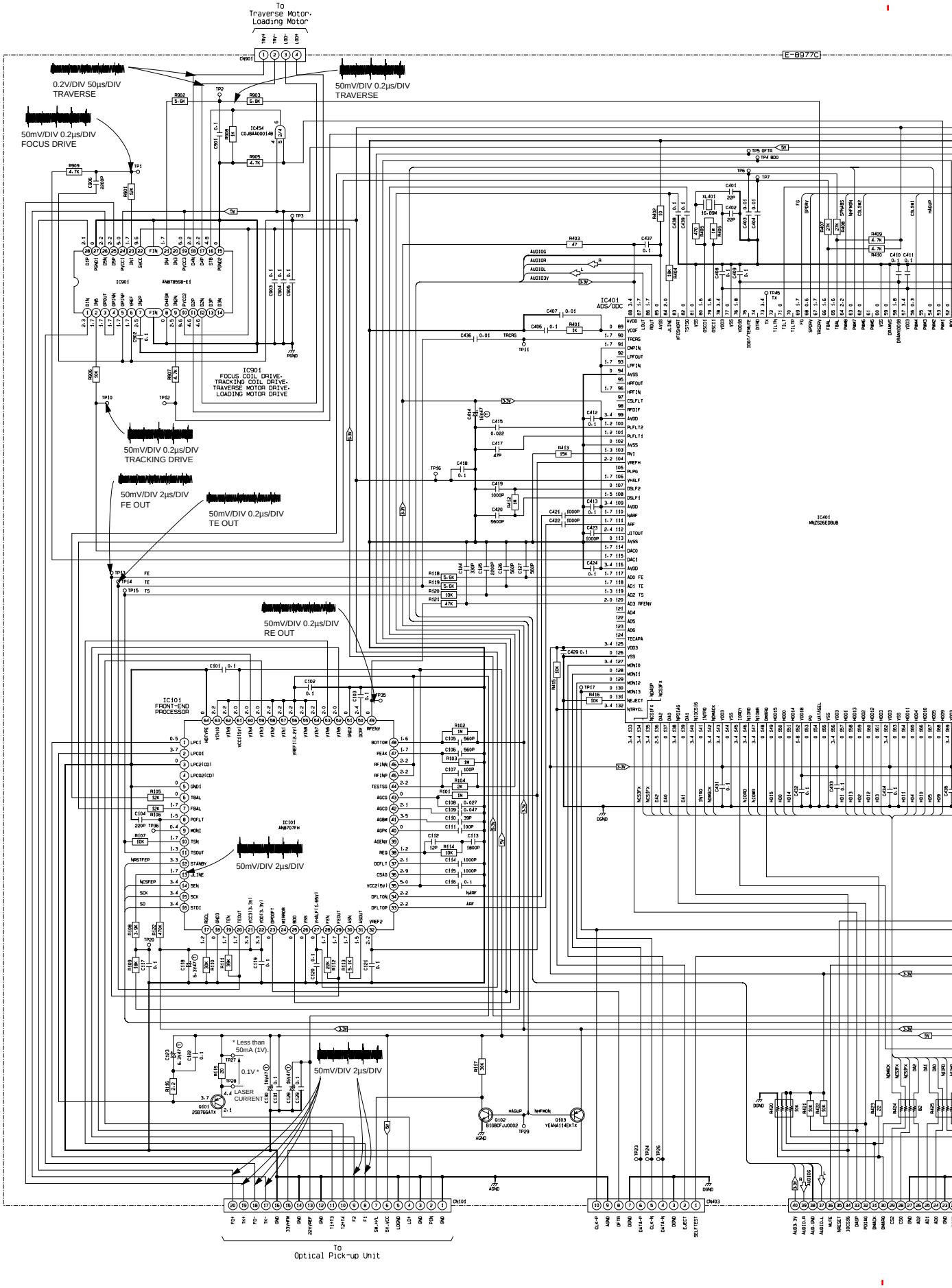

Vin
1
2
Vout
Voltage
Control
4
Vadj
3
GND

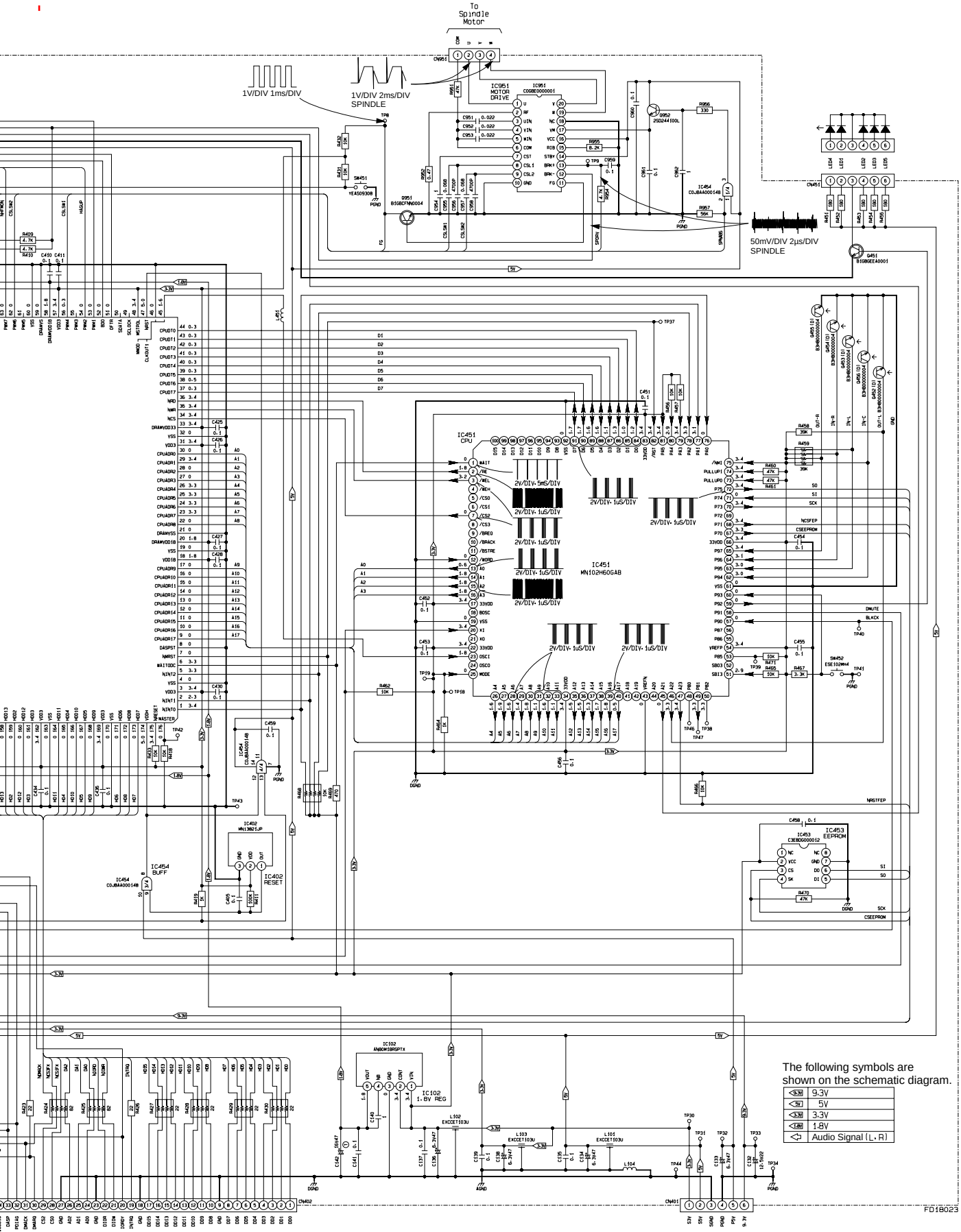
16 SCHEMATIC DIAGRAM -1

16.1. Connector Block



17.5. DVD Servo Block

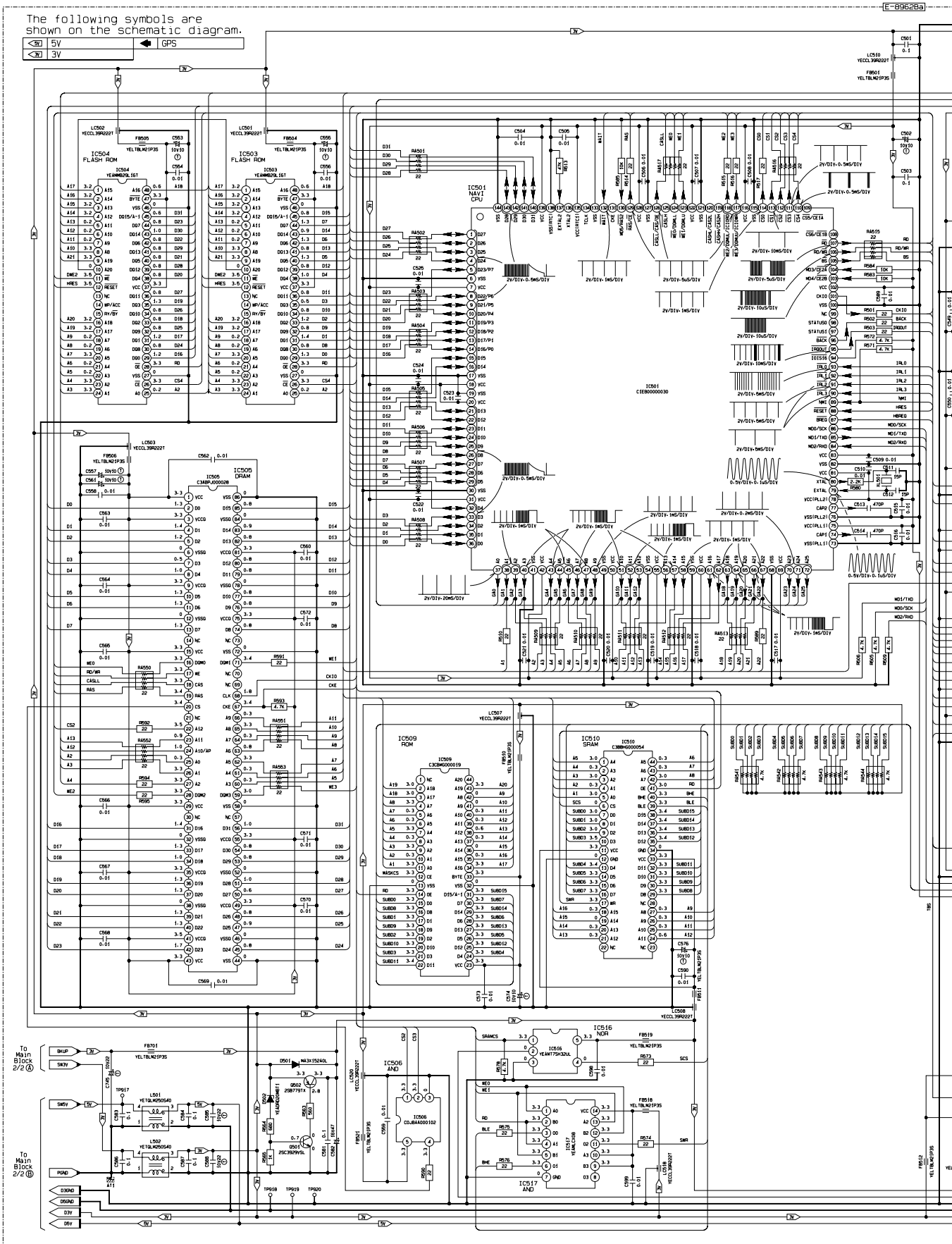


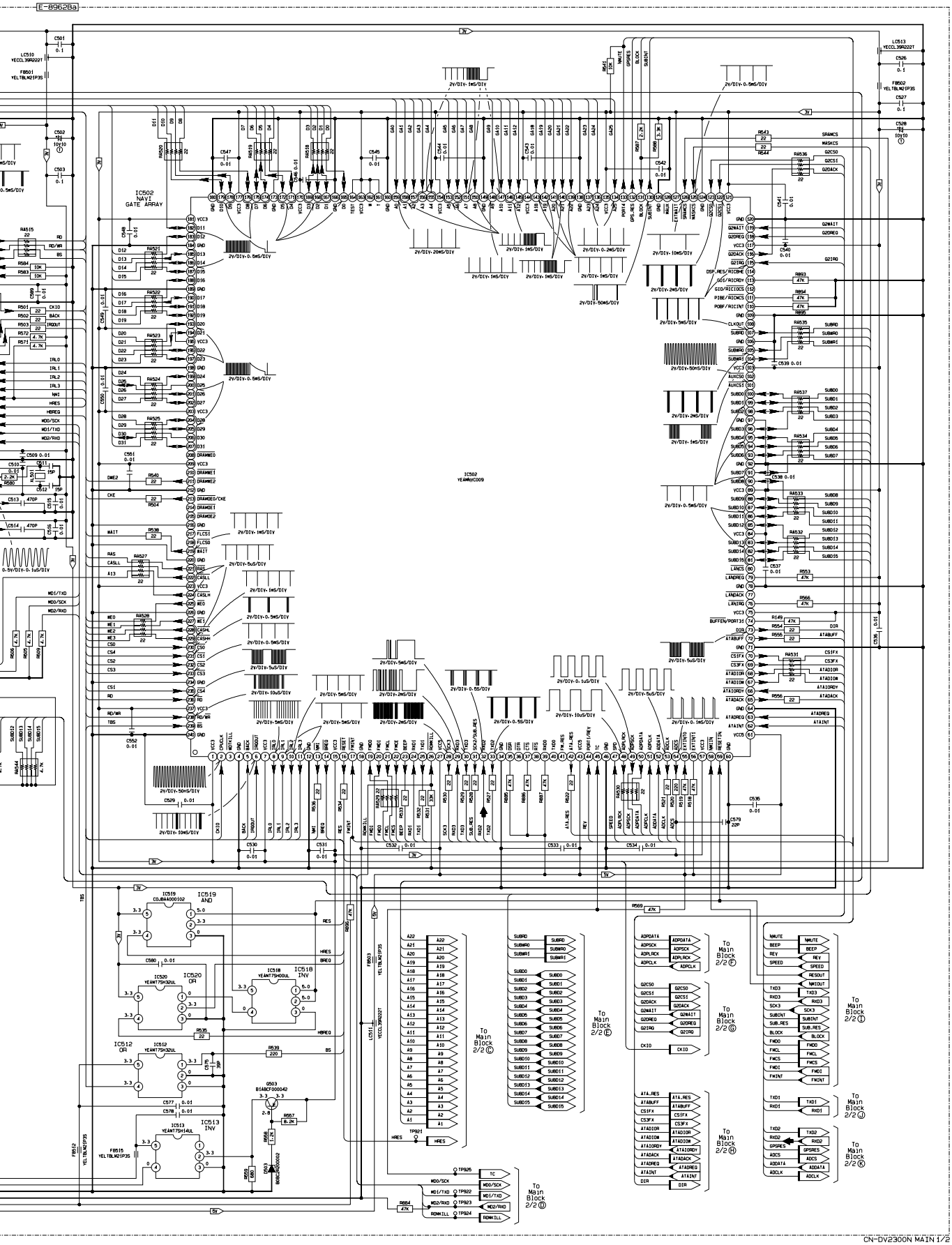


Printed in Japan
2001.10 (K)

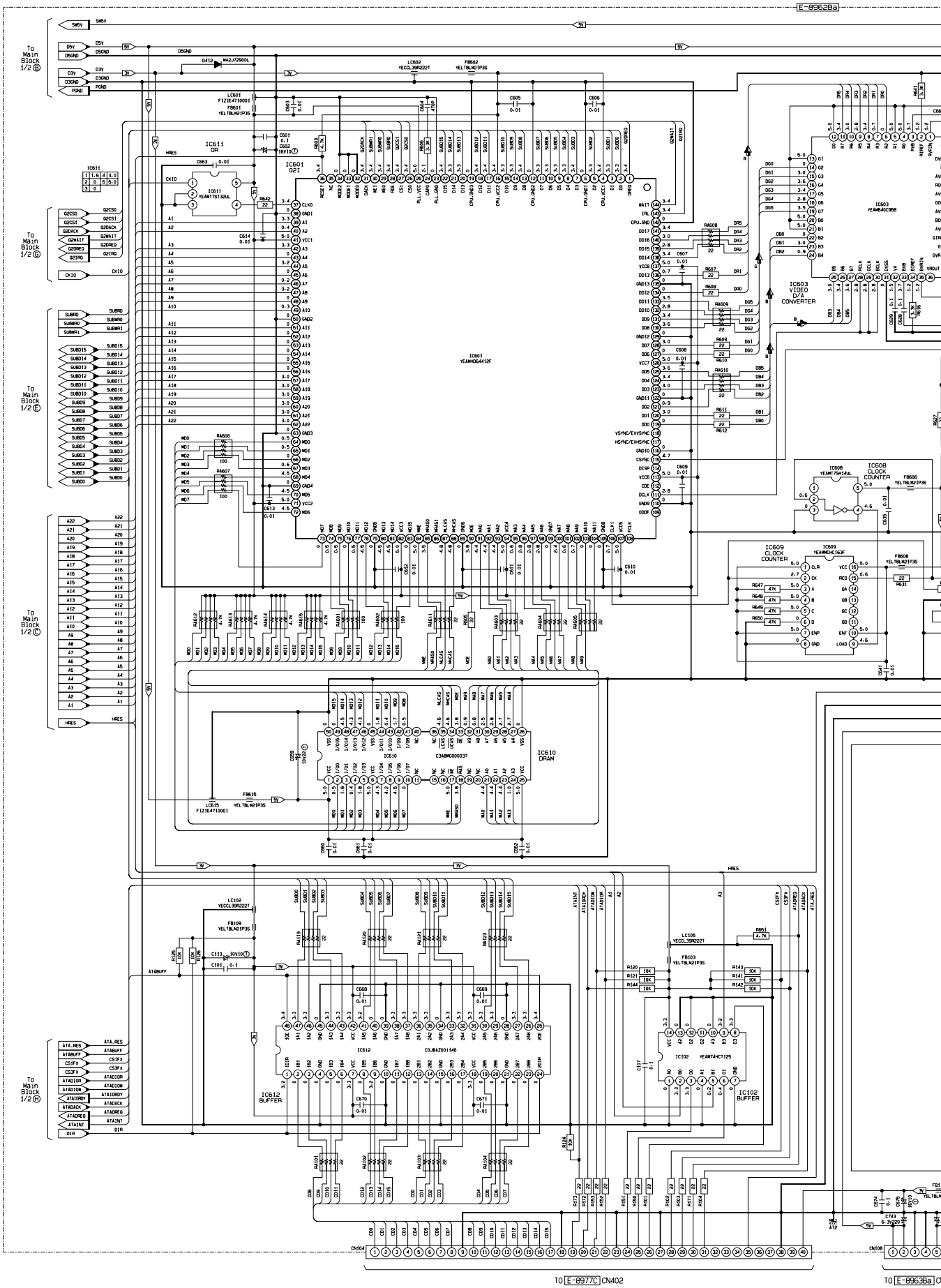
17 SCHEMATIC DIAGRAM -2

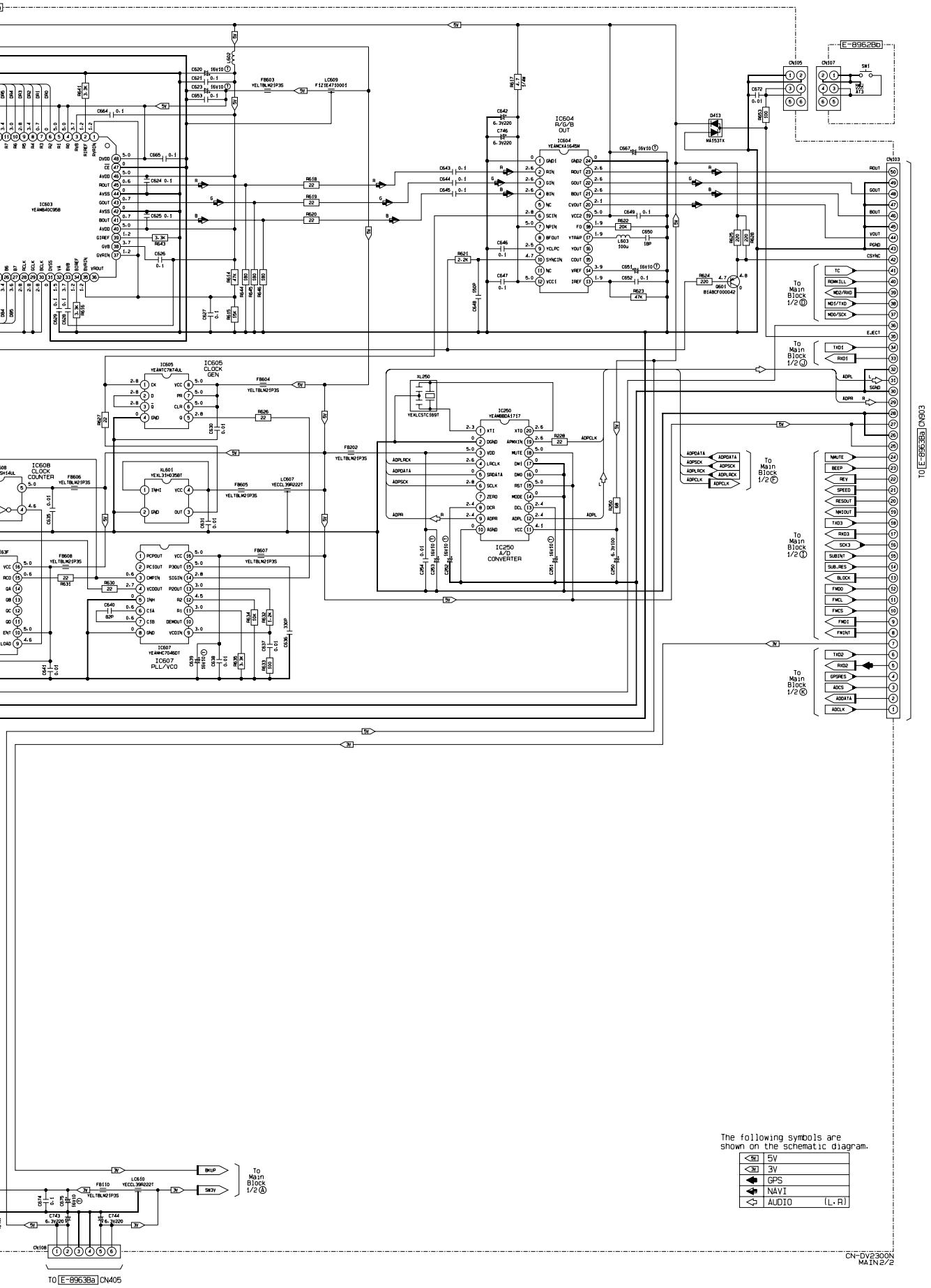
17.1. Main Block -1



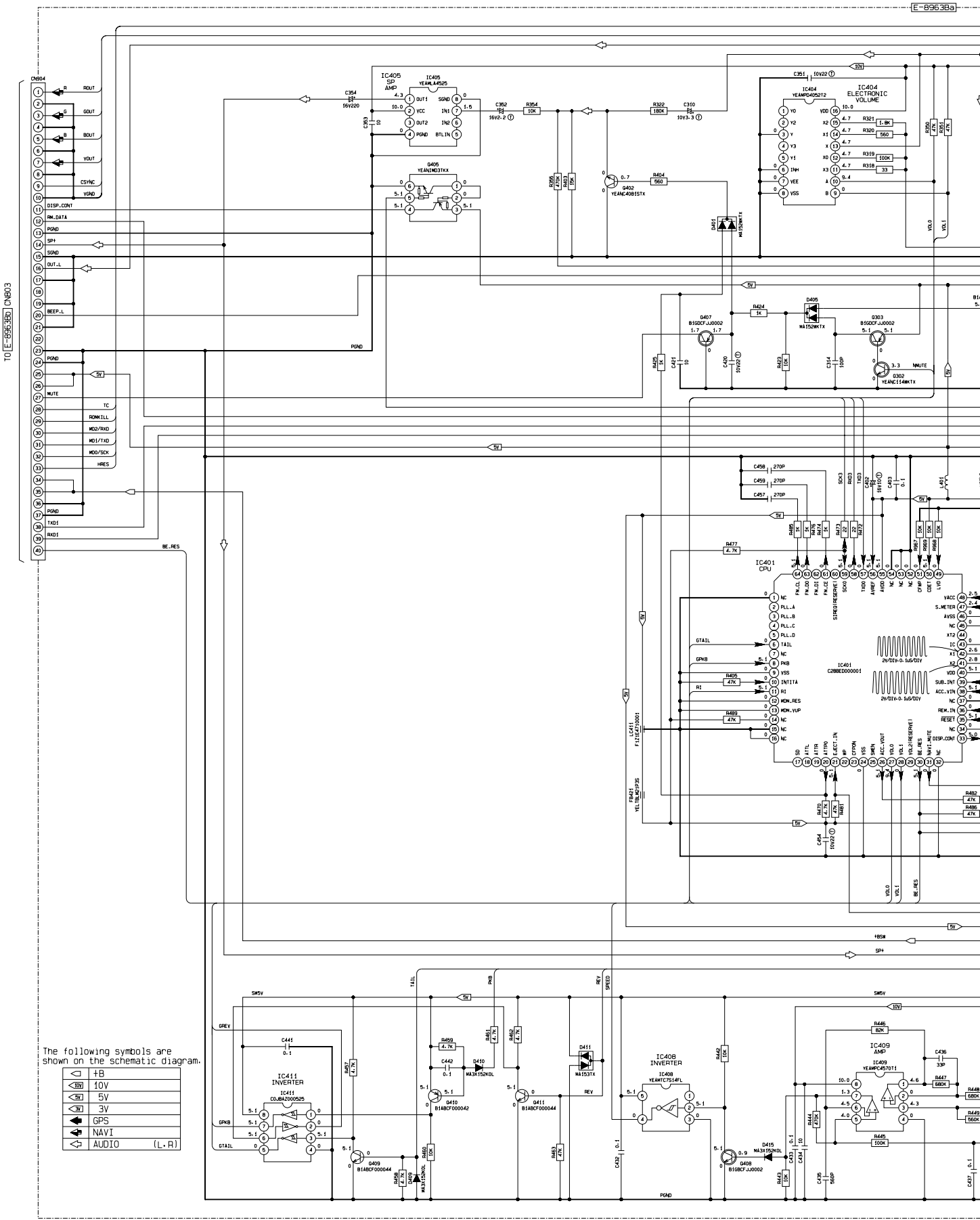

E-89628a
IC502
NAVI
GATE ARRAY
IC519
AND
IC520
OR
IC518
INV
IC512
OR
IC513
INV
To Main Block 2/2 C
To Main Block 2/2 D
To Main Block 2/2 E
To Main Block 2/2 F
To Main Block 2/2 G
To Main Block 2/2 H
To Main Block 2/2 I
To Main Block 2/2 J
To Main Block 2/2 K
CN-DV2300N MAIN 1/2

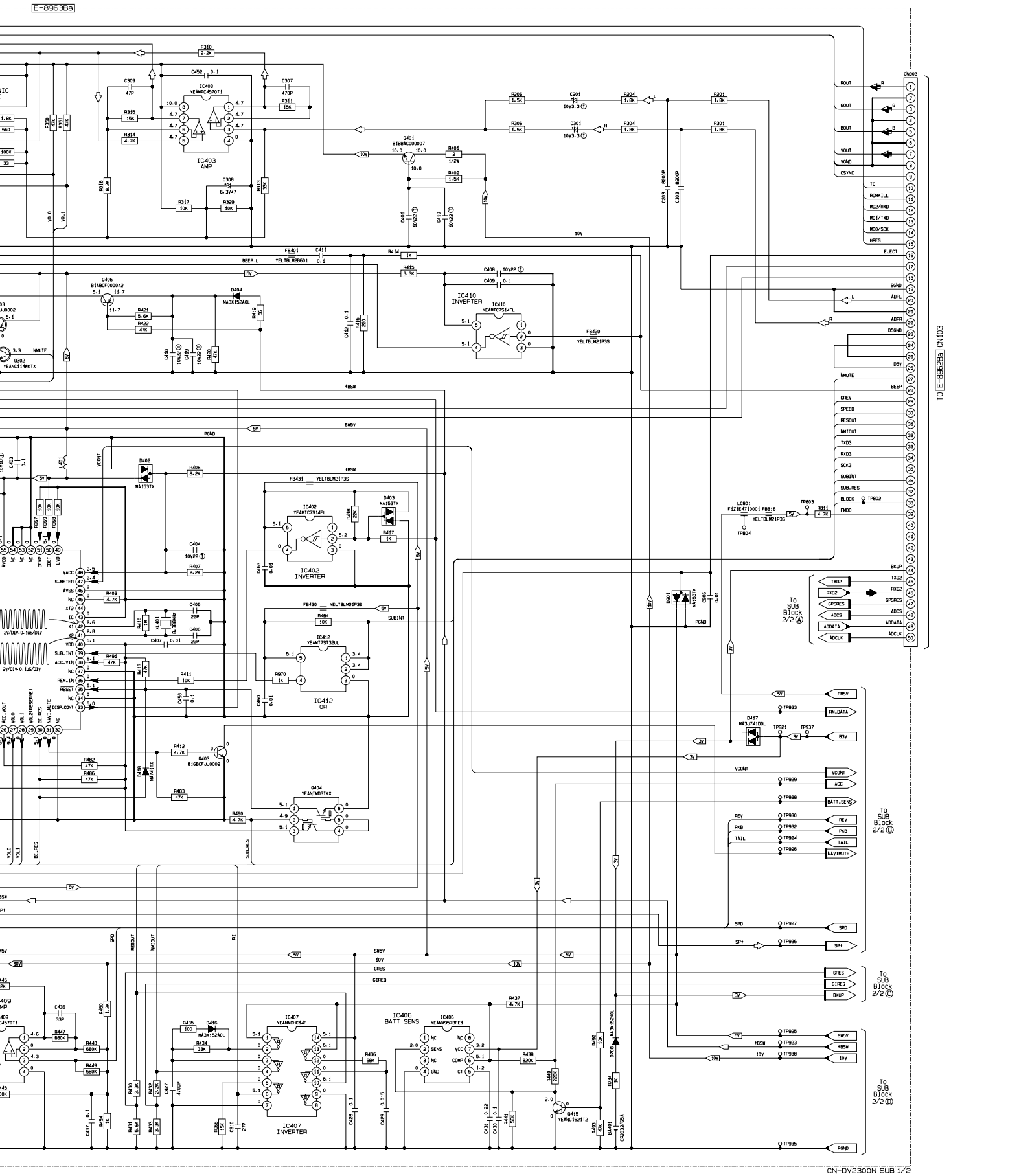
17.2. Main Block -2 / Eject Block



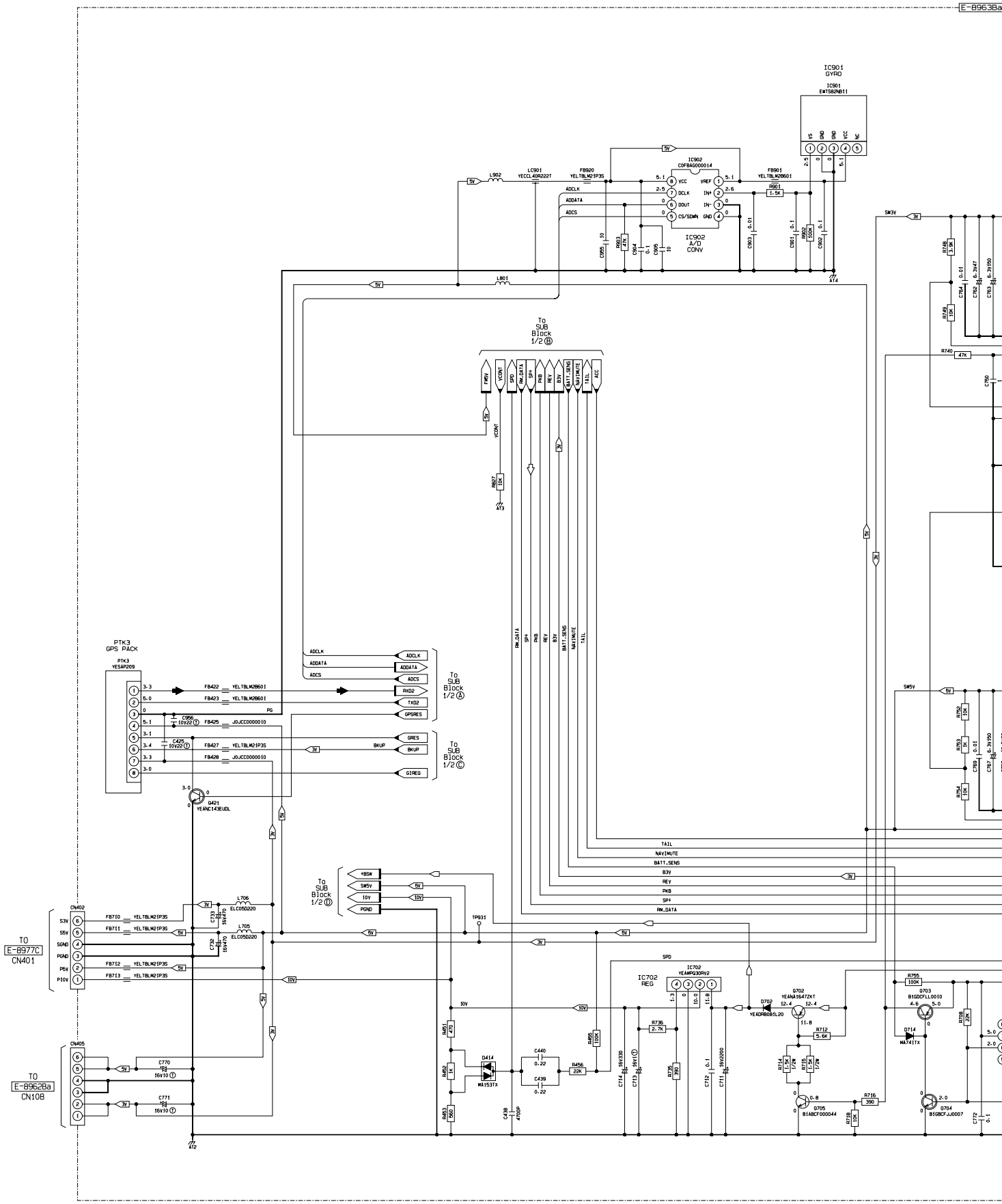

IC603
YEAMB40C958
IC604
R/G/B
OUT
YEAMCA1645M
IC605
CLOCK
GEN
YEAMC7R7AUL
IC606
CLOCK
COUNTER
IC607
PLL/VCO
YEAMC7046DT
IC250
A/D
CONVERTER
YEAMBBDA1717
XL250
YEXLCSTC169T
XL601
YEXL31H035BT
CN103
CN105
CN107
CN108
D413
MA153TX
Sw1
To
Main
Block
1/2
TO E-8963Ba CN405
TO E-8963Ba CN903
CN-DV2300N
MAIN2/2
The following symbols are
shown on the schematic diagram.
5V
3V
GPS
NAVI
AUDIO (L.R)

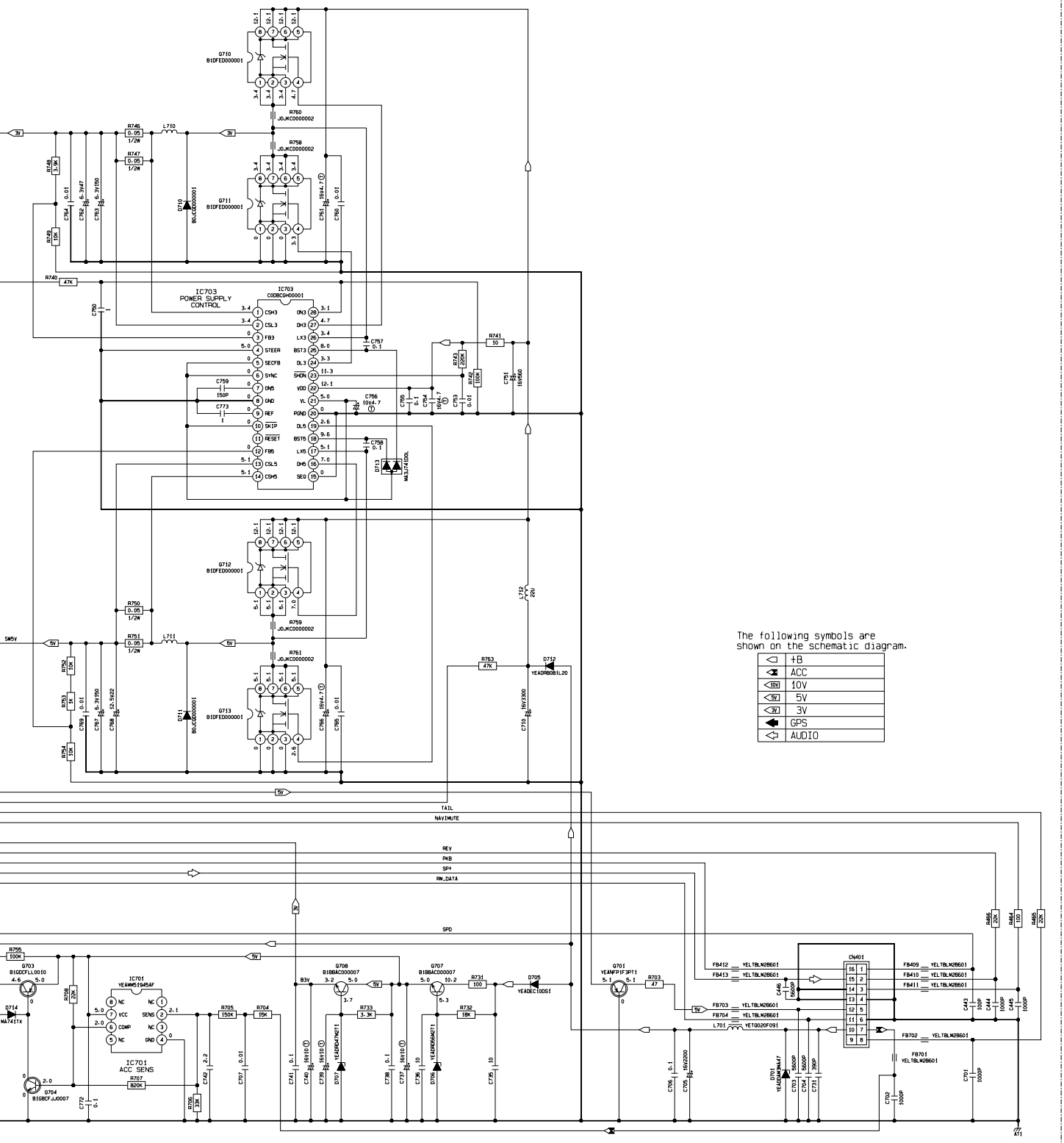
17.3. Sub Block -1




E-8963Ba
IC403
YEAMPC457DT1
AMP
IC410
INVERTER
YEAMTC7S14FL
IC402
INVERTER
IC412
OR
IC407
INVERTER
IC405
BATT SENS
YEAMM57BFE1
CN903
CN103
To E-8962Ba
To SUB Block 2/2Ⓐ
To SUB Block 2/2Ⓑ
To SUB Block 2/2Ⓒ
To SUB Block 2/2Ⓓ
CN-DV2300N SUB 1/2

17.4. Sub Block -2




IC703
POWER SUPPLY
CONTROL
IC703
C00BCGH00001
IC701
YEAMM51945AF
ACC SENS
Q703
B1GDCFLL0010
Q704
B1GBCFJJ0007
Q708
B1BBACO00007
Q707
B1BBACO00007
Q701
YEANFPJF3PT1
CN401
IC701
ACC SENS
The following symbols are
shown on the schematic diagram.
+B
ACC
10V
5V
3V
GPS
AUDIO
TAIL
NAVIMUTE
REV
PKB
SPI
RM_DATA
SPD

E-8977C

To Traverse Motor-Loading Motor

To Spindle Motor

0.2V/DIV 50µs/DIV TRAVERSE

50mV/DIV 0.2µs/DIV TRAVERSE

50mV/DIV 0.2µs/DIV FOCUS DRIVE

1V/DIV 1ms/DIV

1V/DIV 2ms/DIV SPINDLE

50mV/DIV 2µs/DIV SPINDLE

IC901 FOCUS COIL DRIVE· TRACKING COIL DRIVE· TRAVERSE MOTOR DRIVE· LOADING MOTOR DRIVE

50mV/DIV 0.2µs/DIV TRACKING DRIVE

50mV/DIV 2µs/DIV FE OUT

50mV/DIV 0.2µs/DIV TE OUT

50mV/DIV 0.2µs/DIV RE OUT

50mV/DIV 2µs/DIV

* Less than 50mA (1V).

0.1V *

LASER CURRENT

50mV/DIV 2µs/DIV

IC401 MN25626DDUB

IC451 CPU

IC451 MN102H60GAB

2V/DIV· 1uS/DIV

IC101 FRONT-END PROCESSOR

IC101 AN8078H

IC102 1.8V REG

IC402 RESET

IC453 EEPROM

IC454 BUFF

: Video & Audio(RF) signal

: Audio signal

: Servo signal

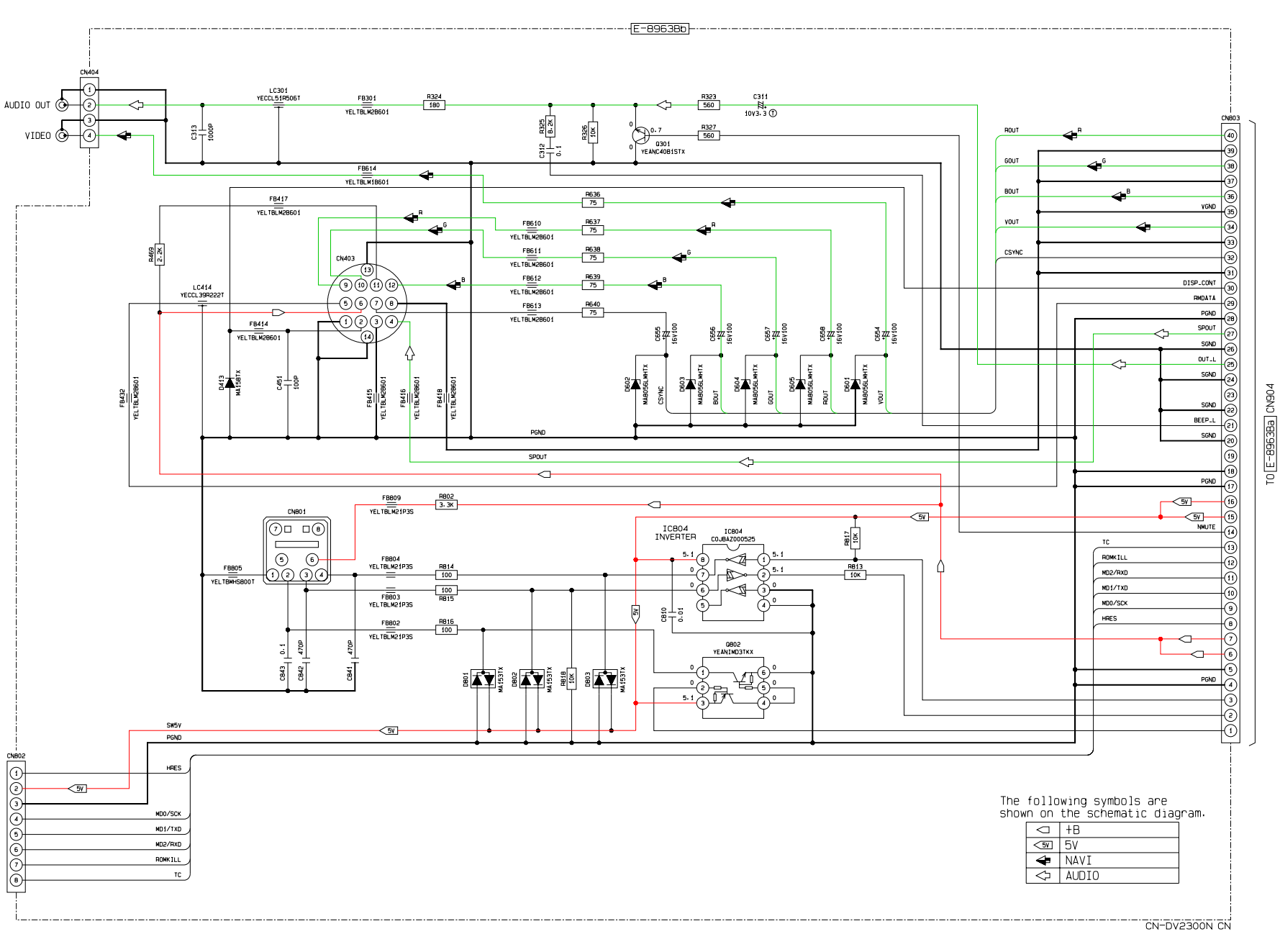
The following symbols are shown on the schematic diagram

<3.3V	9.3V
<5V	5V
<3.3V	3.3V
<1.8V	1.8V
⇦	Audio Signal (L·R)

To Optical Pick-up Unit

FD18023

Printed in Japan
2001.10 (K)


E-8963Bb
CN404
AUDIO OUT
VIDEO
LC301
YECCL51R506T
FB301
YELTBLM2B601
R324
180
C313
1000P
R325
8.2K
C312
0.1
R326
10K
Q301
YEANC40B1STX
R323
560
R327
560
C311
10V3.3
FB614
YELTBLM1B601
FB417
YELTBLM2B601
R459
2.2K
LC414
YECCL39R222T
CN403
FB414
YELTBLM2B601
FB610
YELTBLM2B601
FB611
YELTBLM2B601
FB612
YELTBLM2B601
FB613
YELTBLM2B601
R636
75
R637
75
R638
75
R639
75
R640
75
C655
16V100
C656
16V100
C657
16V100
C658
16V100
C654
16V100
D602
MAB056LMHTX
CSYNC
D603
MAB056LMHTX
BOUT
D604
MAB056LMHTX
GOUT
D605
MAB056LMHTX
ROUT
D601
MAB056LMHTX
VOUT
FB422
YELTBLM2B601
D413
MA158TX
C451
100P
FB415
YELTBLM2B601
FB416
YELTBLM2B601
FB418
YELTBLM2B601
PGND
SPOUT
CN803
ROUT
GOUT
BOUT
VOUT
CSYNC
VGND
DISP_CONT
RMDATA
PGND
SPOUT
SGND
OUT_L
SGND
SGND
BEEP_L
SGND
PGND
5V
5V
MMUTE
TC
ROMKILL
MD2/RXD
MD1/TXD
MD0/SCK
HRES
PGND
TO E-8963Ba CN904
CN801
FB805
YELTBMHSB00T
FB809
YELTBLM21P3S
FB804
YELTBLM21P3S
FB803
YELTBLM21P3S
FB802
YELTBLM21P3S
RB02
3.3K
RB14
100
RB15
100
RB16
100
C843
0.1
C842
470P
C841
470P
IC804
INVERTER
IC804
COJBAZ00525
RB17
10K
RB13
10K
C810
0.01
5V
Q802
YEANIMD3TKX
DB01
MA153TX
DB02
MA153TX
RB18
10K
DB03
MA153TX
SW5V
PGND
5V
CN802
HRES
MD0/SCK
MD1/TXD
MD2/RXD
ROMKILL
TC
The following symbols are
shown on the schematic diagram.
+B
5V
NAVI
AUDIO
CN-DV2300N CN

The following symbols are shown on the schematic diagram.

5V | GPS
3V

IC501 NAVI CPU

IC502 NAVI GATE ARRAY

IC503 FLASH ROM

IC504 FLASH ROM

IC505 DRAM

IC506 AND

IC509 ROM

IC510 SRAM

IC516 NOR

IC517 AND

IC518 INV

IC519 AND

IC520 OR

IC512 OR

IC513 INV

To Main Block 2/2 (A)
To Main Block 2/2 (B)
To Main Block 2/2 (C)
To Main Block 2/2 (D)
To Main Block 2/2 (E)
To Main Block 2/2 (F)
To Main Block 2/2 (G)
To Main Block 2/2 (H)
To Main Block 2/2 (I)
To Main Block 2/2 (J)
To Main Block 2/2 (K)

E-89628a

IC601 YEAMD64412F

IC611 QR

IC601 QZ1

IC603 YEAMD40C958 VIDEO D/A CONVERTER

IC604 YEAMC41645M R/G/B OUT

IC605 YEAMC79T44L CLOCK GEN

IC608 YEAMC79T44L CLOCK COUNTER

IC609 YEAMHC163F CLOCK COUNTER

IC607 YEAMC704DT PLL/VCO

IC610 C3ABMG000037 DRAM

IC612 C0JBAZ001146 BUFFER

IC102 YEAM74HCT125 BUFFER

IC250 YEAMBD41717 A/D CONVERTER

XL601 YEXL31M035BT

XL250 YEXLCST C160T

IC511 YEAM17S73ZUL

LC601 F12JE4710001

LC602 YECCL39R022T

LC609 F12JE4710001

LC610 YECCL39R022T

LC615 F12JE4710001

LC102 YECCL39R022T

LC105 YECCL39R022T

LC607 YECCL39R022T

FB601 YELTBLM21P35

FB602 YELTBLM21P35

FB603 YELTBLM21P35

FB604 YELTBLM21P35

FB605 YELTBLM21P35

FB606 YELTBLM21P35

FB607 YELTBLM21P35

FB608 YELTBLM21P35

FB609 YELTBLM21P35

FB610 YELTBLM21P35

FB615 YELTBLM21P35

FB100 YELTBLM21P35

FB103 YELTBLM21P35

FB202 YELTBLM21P35

D412 MA2J720900L

D413 M41537X

Q601 B1A8KF000042

CN105 CN107 SW1 SKRKAE010

CN103 TO E-89628b CN103

CN104 TO E-8977C CN402

CN108 TO E-89638a CN405

To Main Block 1/2 Ⓑ To Main Block 1/2 Ⓖ To Main Block 1/2 Ⓒ To Main Block 1/2 Ⓔ To Main Block 1/2 Ⓓ To Main Block 1/2 Ⓙ To Main Block 1/2 Ⓕ To Main Block 1/2 Ⓘ To Main Block 1/2 Ⓚ To Main Block 1/2 Ⓐ To Main Block 1/2 Ⓗ

The following symbols are shown on the schematic diagram.

5V	5V
3V	3V
GPS	GPS
NAVI	NAVI
AUDIO (L.A)	AUDIO (L.A)

CN-DV2300N MAIN 2/2

E-89638a

TO E-89638b CN803

TO E-89638a CN103

CN804

CN803

IC405 SP AMP YEAML4525

IC404 ELECTRONIC VOLUME YEAMS405212

IC403 AMP YEAMC4570T1

IC401 CPU C2BBEE0000001

IC402 INVERTER YEAMTC7514FL

IC410 INVERTER YEAMTC7514FL

IC411 INVERTER C0JBAZ000525

IC408 INVERTER YEAMTC7514FL

IC409 AMP YEAMPC4570T1

IC407 YEAMMCHC14F

IC406 BATT SENS YEAMM9578FE1

IC412 OR YEAMT7S732UL

D401 MA152WKTX

D402 MA153TX

D403 MA153TX

D404 MA3X152A0L

D405 MA152WKTX

D406 B1ABCF000042

D407 B1GDCFJJ0002

D408 B1GBCFJJ0002

D409 B1ABCF000044

D410 MA3X152K0L

D411 MA153TX

D415 MA3X152K0L

D416 MA3X152A0L

D417 MA3J741D0L

D418 MA141TX

D303 B1GDCFJJ0002

D302 YEANC114WKTX

Q401 B1BBAC000007

Q402 YEANC40B15TX

Q403 B1GBCFJJ0002

Q404 YEANIM03TKX

Q405 YEANIM03TKX

Q409 B1ABCF000044

Q410 B1ABCF000042

Q411 B1ABCF000044

Q415 YEANC162112

Q302 YEANC114WKTX

LCD801 FIZIE4710001 FB816

CN401 FIZIE4410001

CN411 FIZIE4410001

X401 8.388MHz

FB401 YELTBLM2B601

FB420 YELTBLM21P3S

FB430 YELTBLM21P3S

FB431 YELTBLM21P3S

BE.RES

SUB.RES

BEEP.L

MUTE

SW5V

+BSW

SP+

PGND

5V

10V

3V

VCONT

To SUB Block 2/2Ⓐ

To SUB Block 2/2Ⓑ

To SUB Block 2/2Ⓒ

To SUB Block 2/2Ⓓ

The following symbols are shown on the schematic diagram.

+B	
10V	10V
5V	5V
3V	3V
GPS	
NAVI	
AUDIO	(L.R)

IC901
GYRO

IC902
A/D CONV

IC703
POWER SUPPLY CONTROL

IC702
REG

IC701
ACC SENS

To SUB Block 1/2Ⓑ

To SUB Block 1/2Ⓐ

To SUB Block 1/2Ⓒ

To SUB Block 1/2Ⓓ

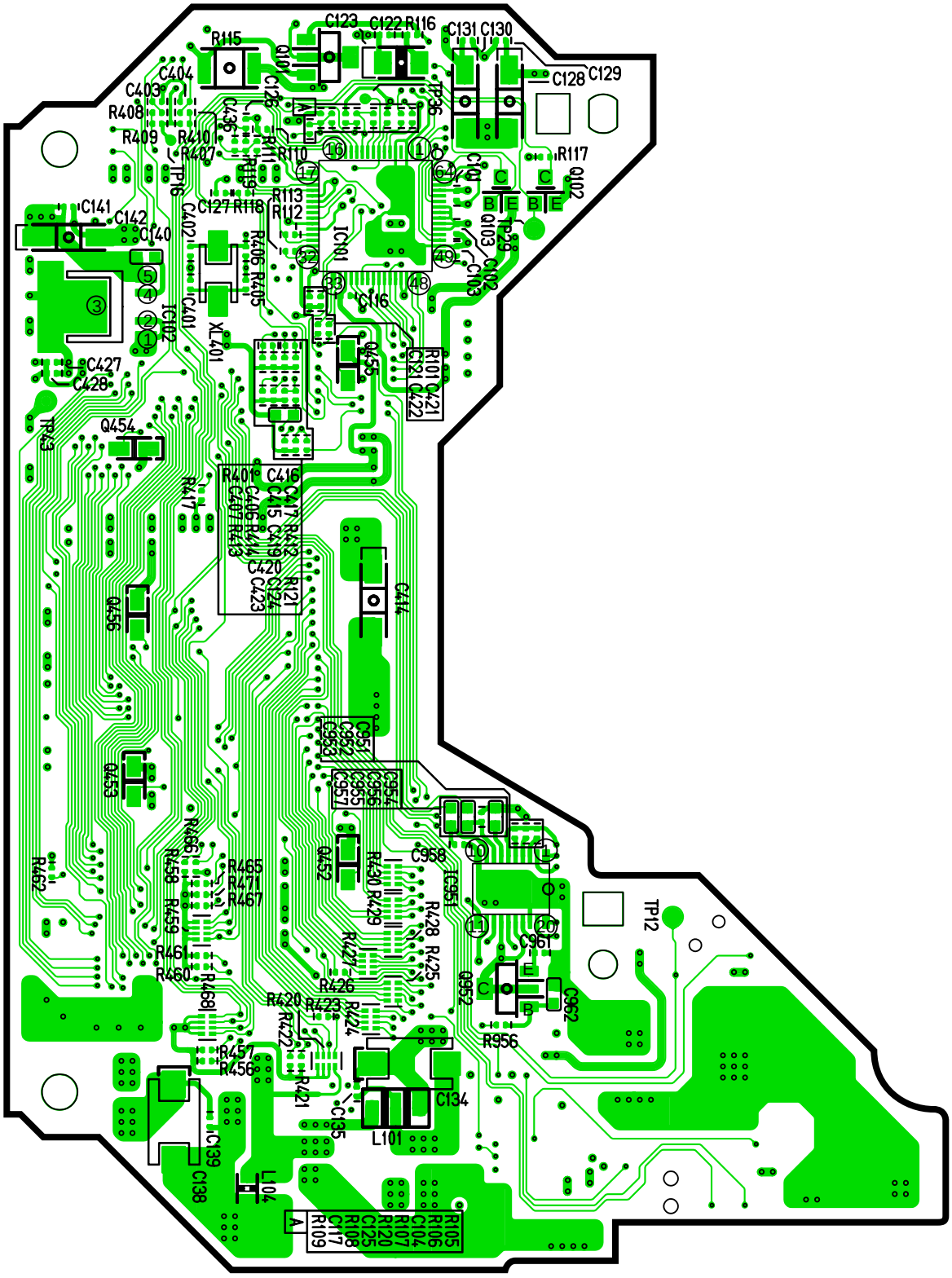
TO E-8977C CN401

TO E-8962Ba CN108

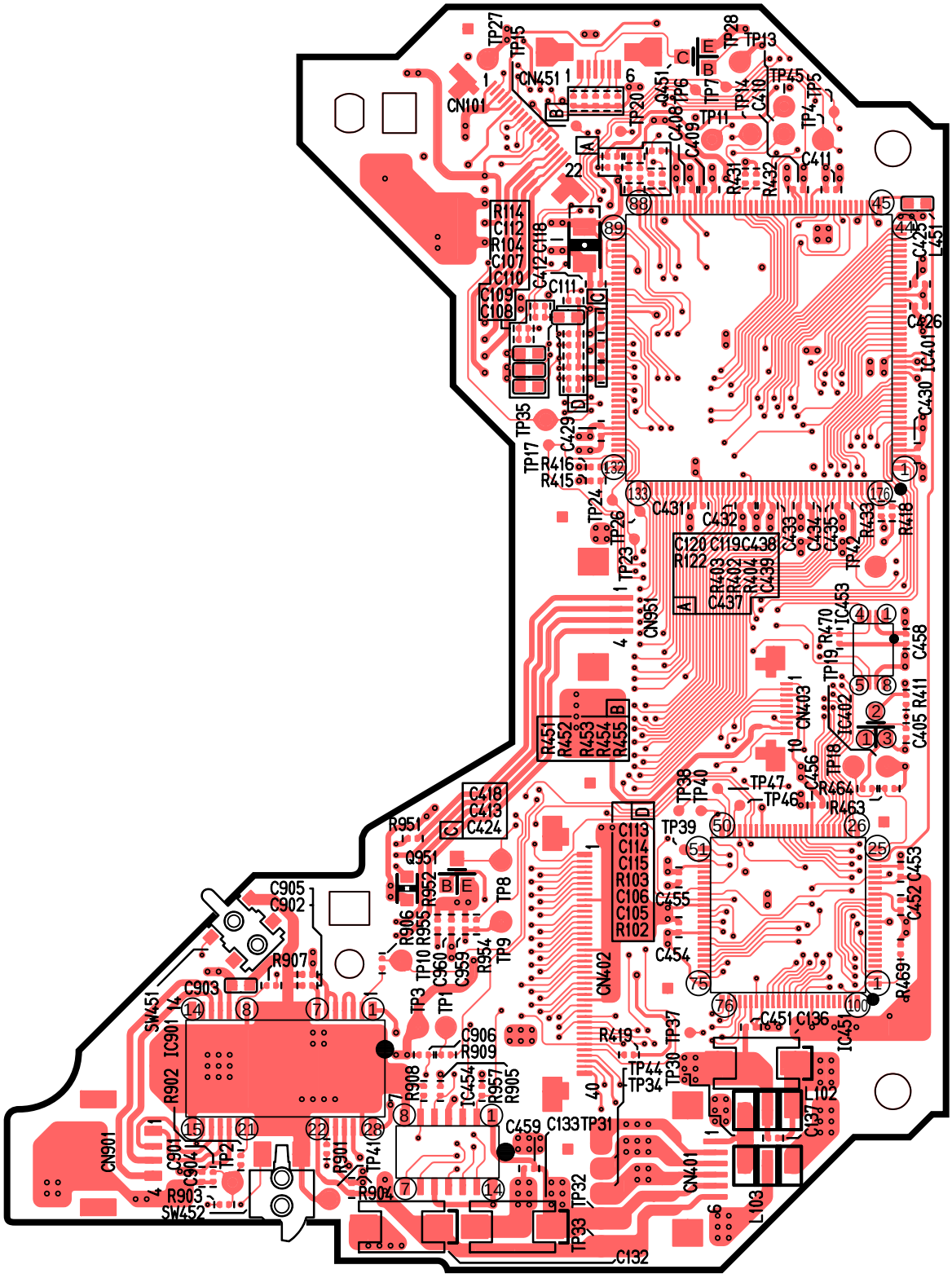
PTK3
GPS PACK

The following symbols are shown on the schematic diagram.

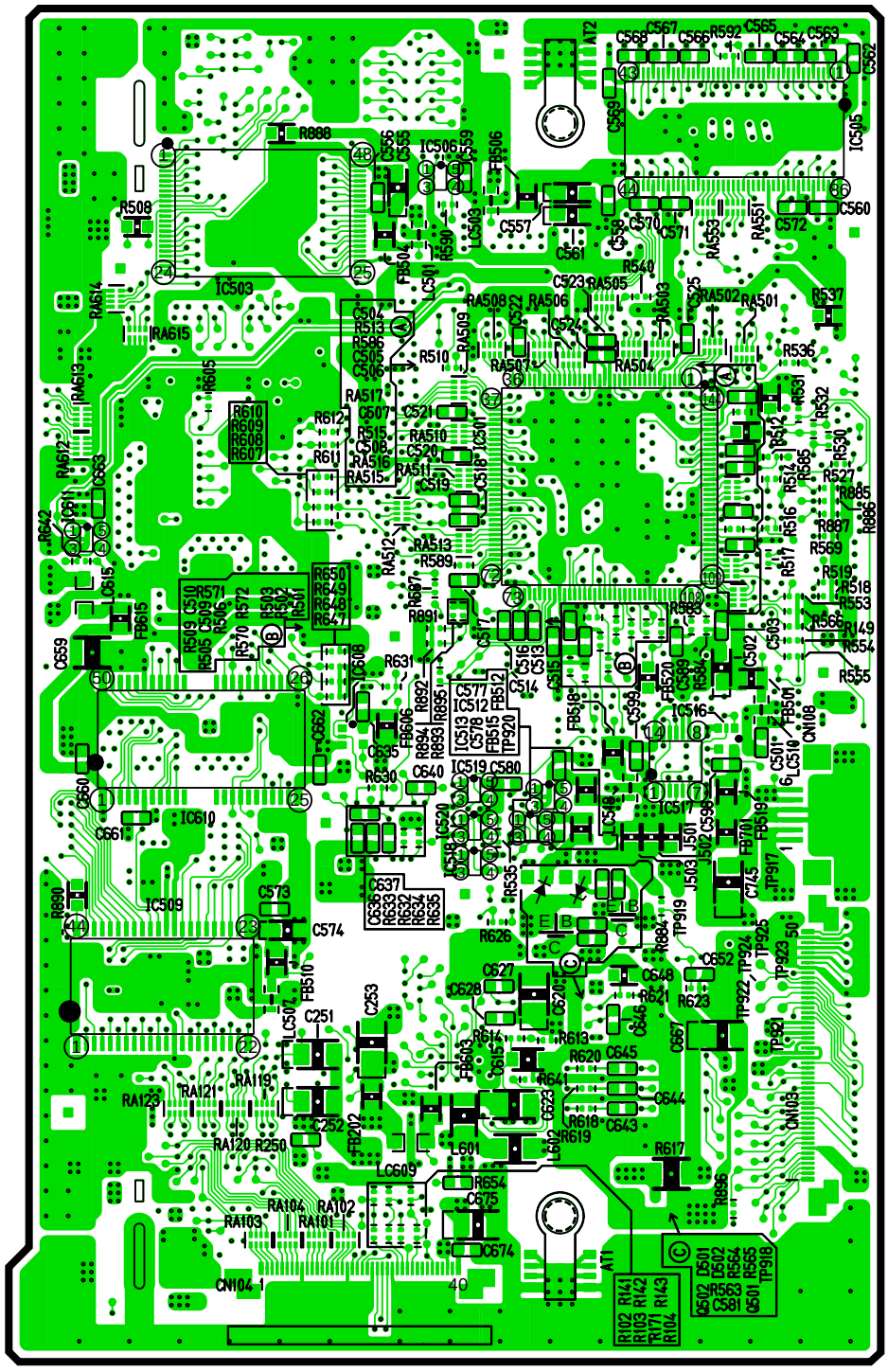
◁	+B
◁	ACC
◁ 10V	10V
◁ 5V	5V
◁ 3V	3V
◀	GPS
◁	AUDIO



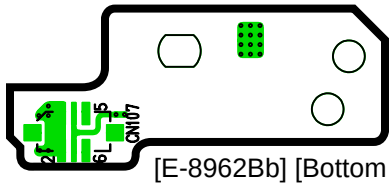
[E-8977C] [Bottom View]



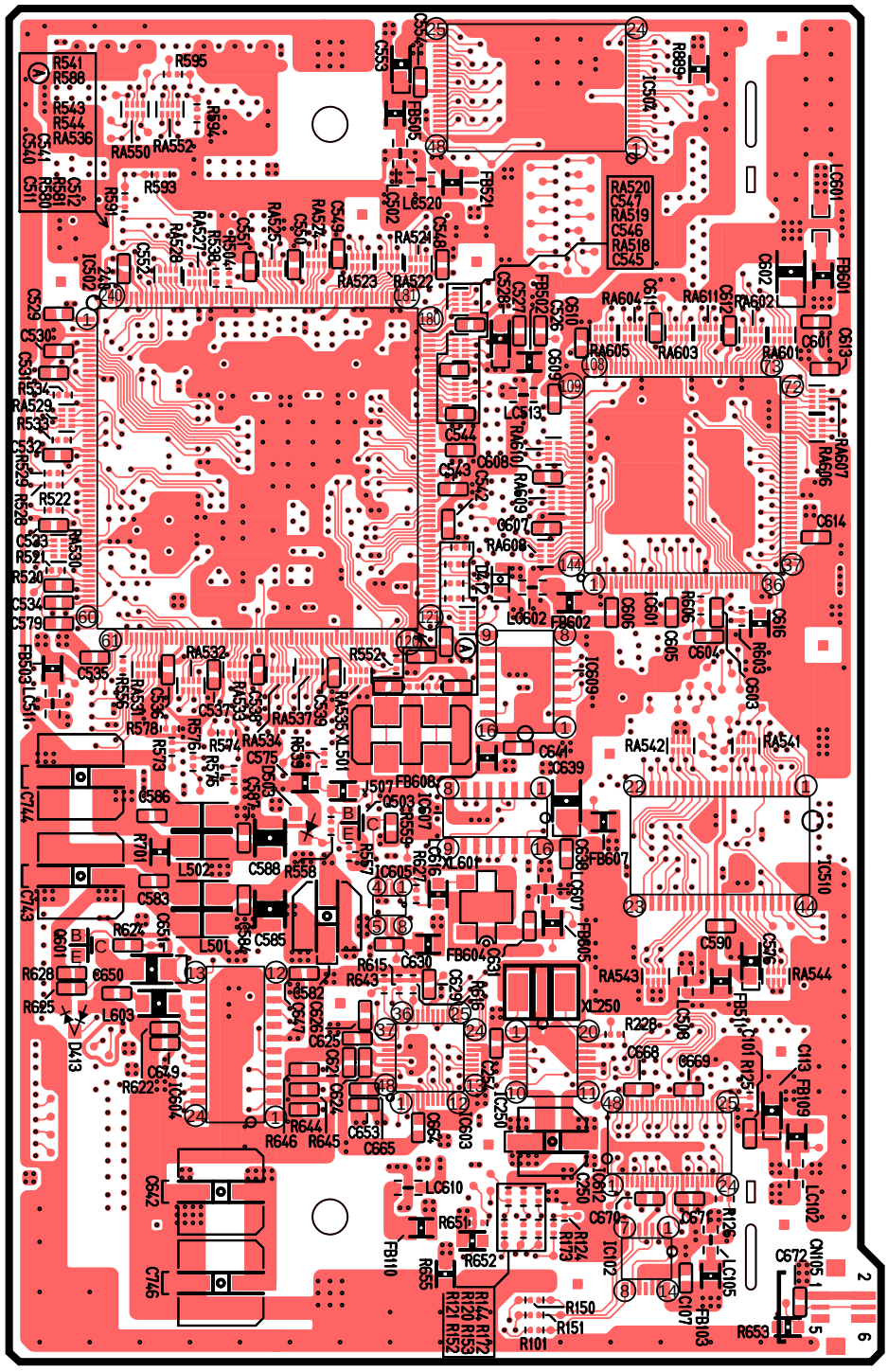
[E-8977C] [Top View]



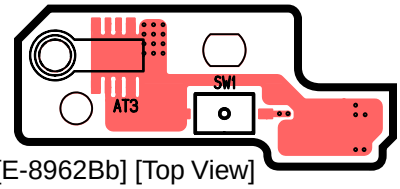
[E-8962Ba] [Bottom View]



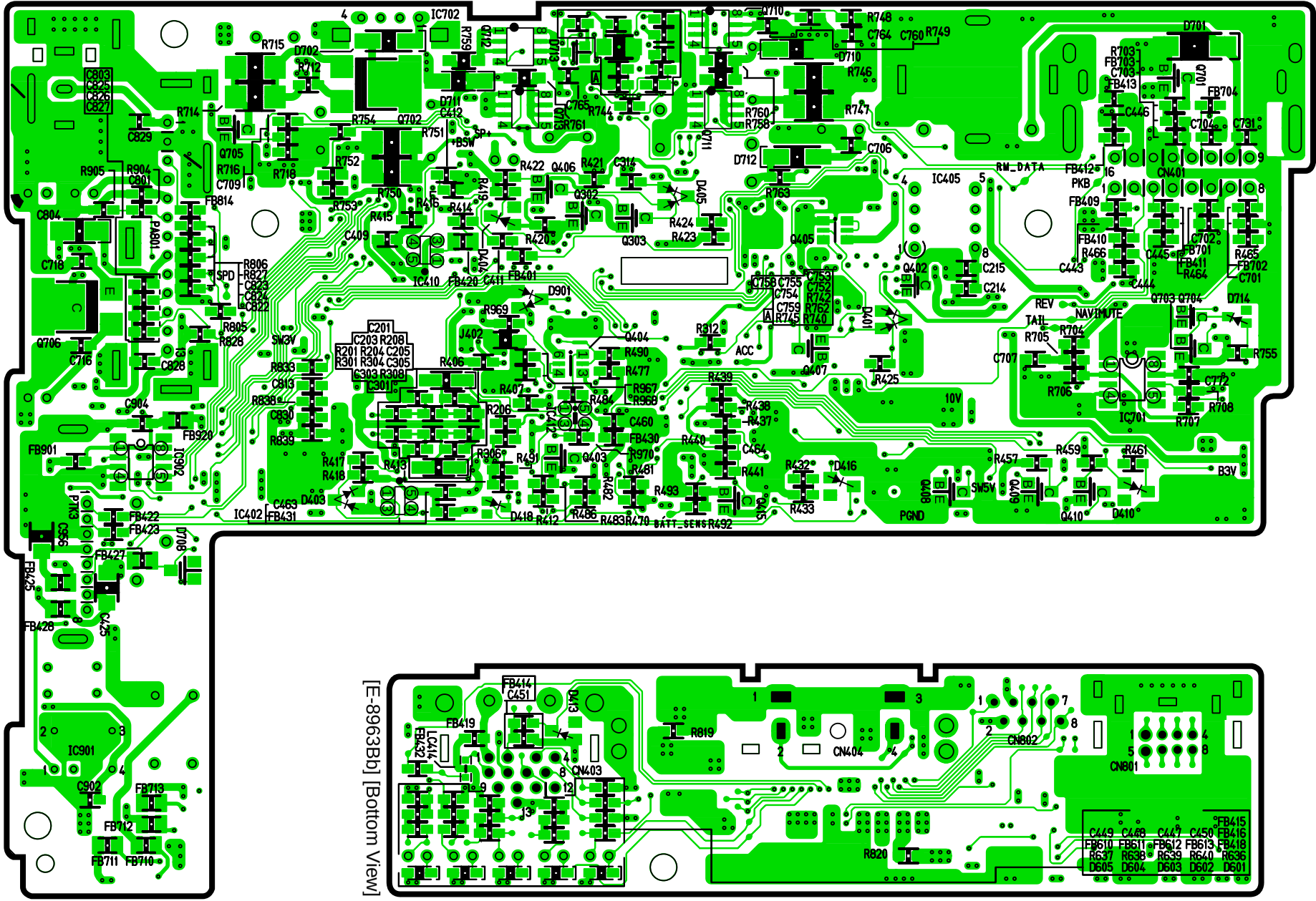
[E-8962Bb] [Bottom View]



[E-8962Ba] [Top View]



[E-8962Bb] [Top View]

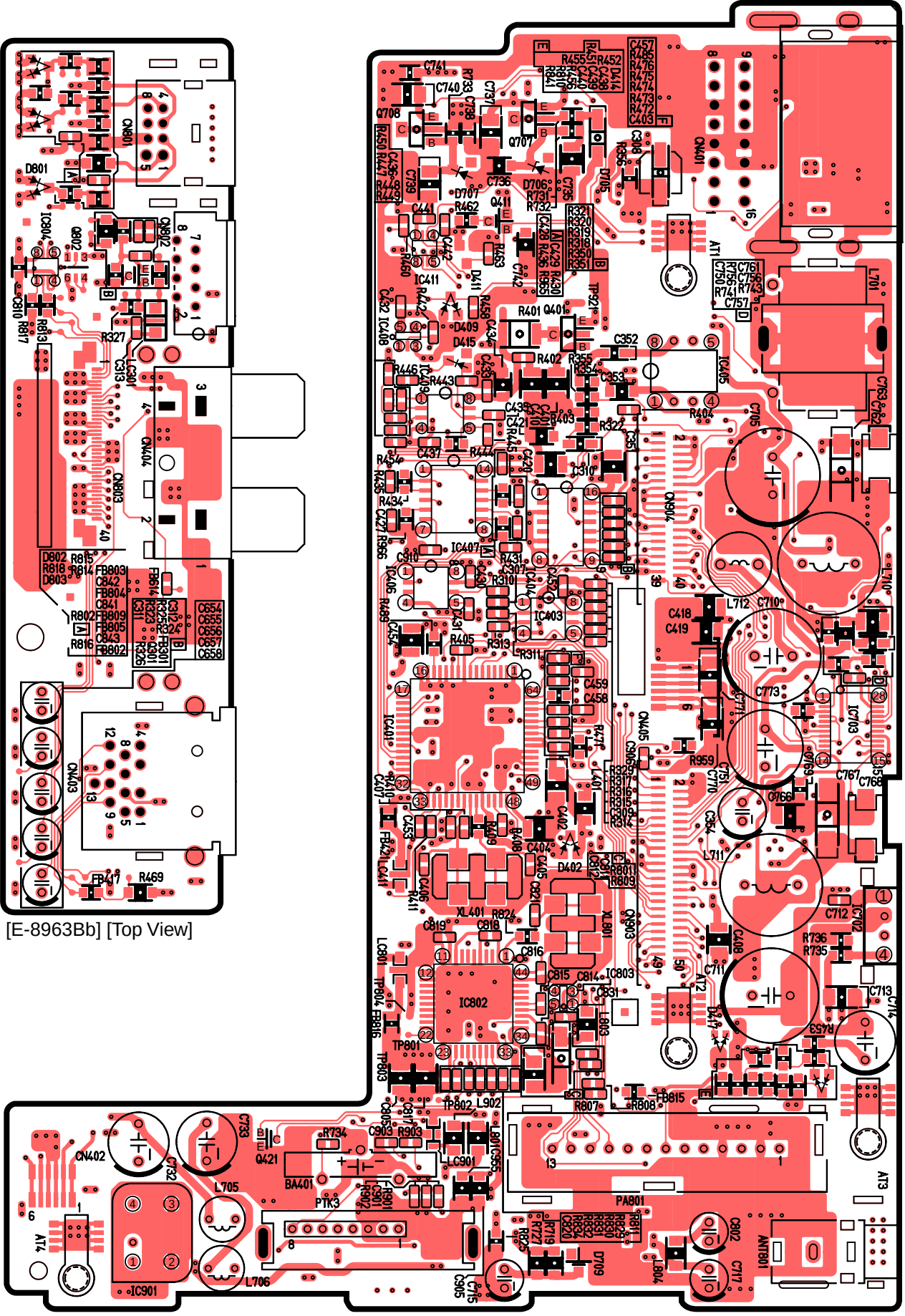


[E-8963Ba] [Bottom View]

[E-8963Bb] [Bottom View]

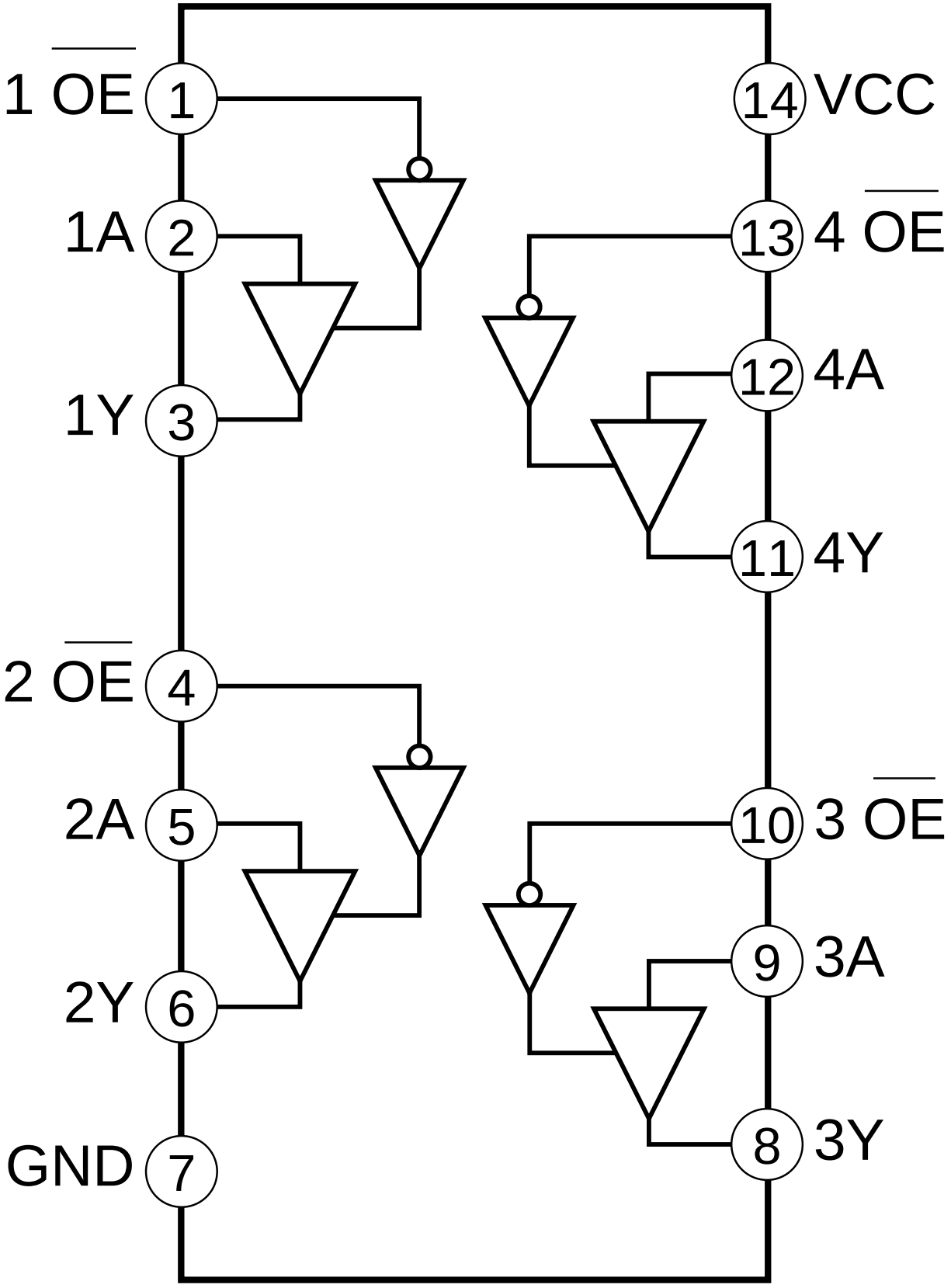
CN-DV2300N

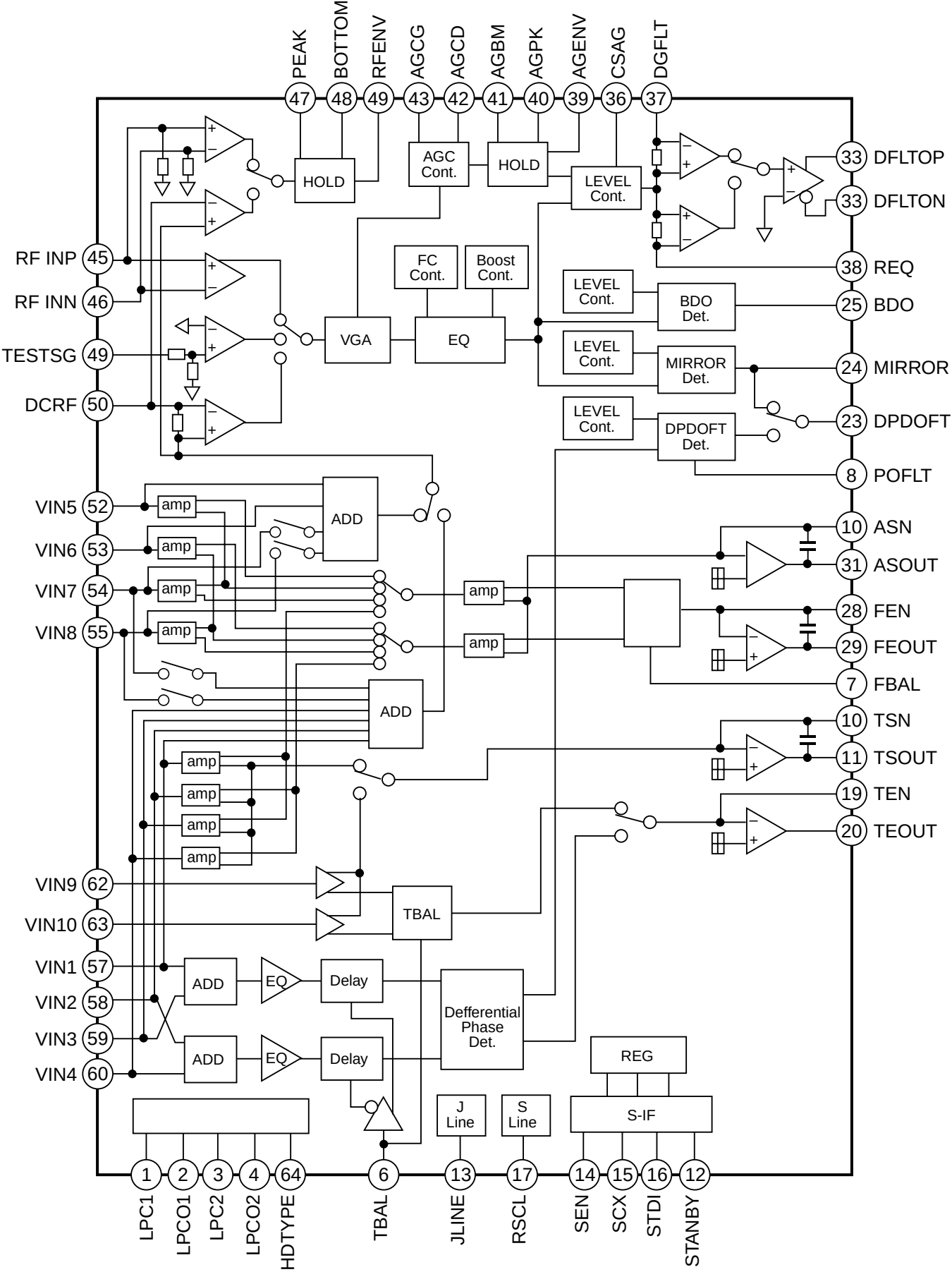
SUB/CONNECTOR BLOCK-2

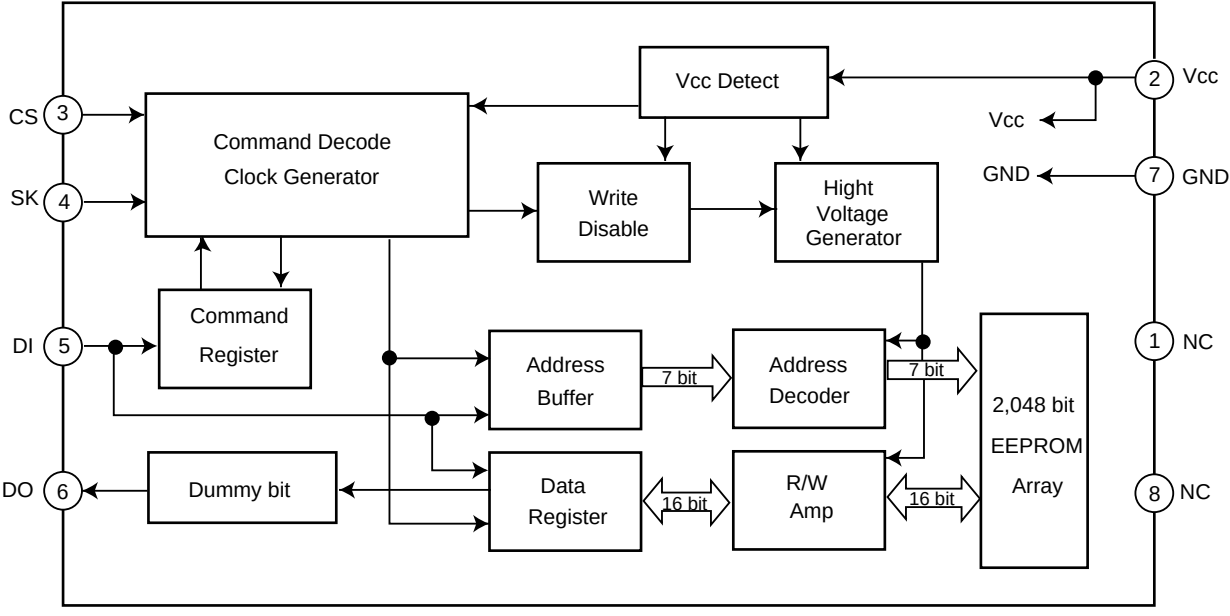


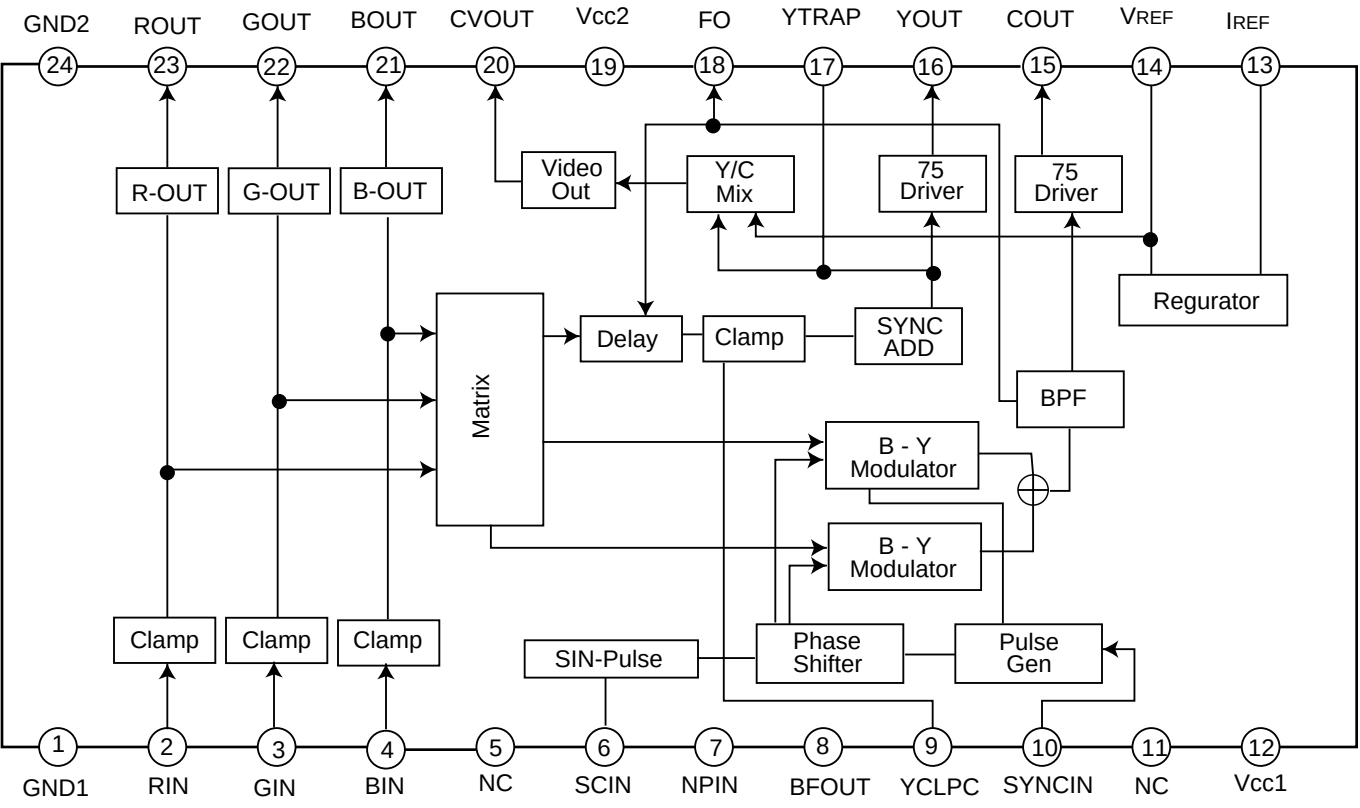
[E-8963Bb] [Top View]

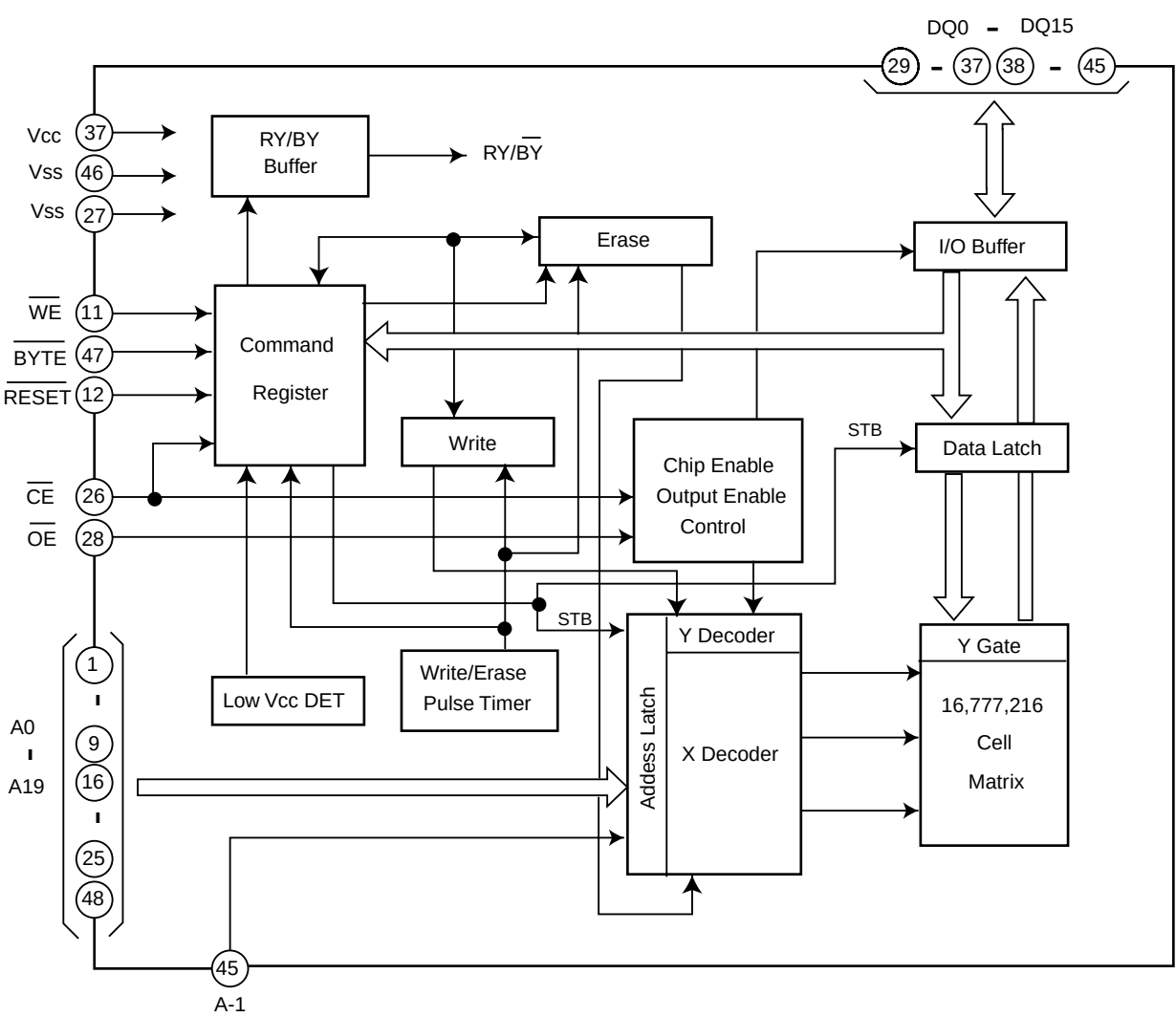
[E-8963Ba] [Top View]


1 OE
1
14
VCC
1A
2
13
4 OE
12
4A
1Y
3
11
4Y
2 OE
4
2A
5
10
3 OE
9
3A
2Y
6
8
3Y
GND
7


PEAK
BOTTOM
RFENV
AGCG
AGCD
AGBM
AGPK
AGENV
CSAG
DGFLT
47
48
49
43
42
41
40
39
36
37
HOLD
AGC Cont.
HOLD
LEVEL Cont.
33 DFLTOP
33 DFLTON
RF INP 45
RF INN 46
TESTSG 49
DCRF 50
FC Cont.
Boost Cont.
VGA
EQ
LEVEL Cont.
BDO Det.
38 REQ
25 BDO
LEVEL Cont.
MIRROR Det.
24 MIRROR
LEVEL Cont.
DPDOFT Det.
23 DPDOFT
8 POFLT
VIN5 52
VIN6 53
VIN7 54
VIN8 55
amp
ADD
10 ASN
31 ASOUT
28 FEN
29 FEOUT
7 FBAL
10 TSN
11 TSOUT
19 TEN
20 TEOUT
VIN9 62
VIN10 63
TBAL
VIN1 57
VIN2 58
VIN3 59
VIN4 60
EQ
Delay
Defferential Phase Det.
REG
S-IF
J Line
S Line
1
2
3
4
64
6
13
17
14
15
16
12
LPC1
LPCO1
LPC2
LPCO2
HDTYPE
TBAL
JLINE
RSCL
SEN
SCX
STDI
STANBY


Vcc Detect
Command Decode
Clock Generator
Write
Disable
Hight
Voltage
Generator
Command
Register
Address
Buffer
7 bit
Address
Decoder
7 bit
2,048 bit
EEPROM
Array
Dummy bit
Data
Register
16 bit
R/W
Amp
16 bit
CS
3
SK
4
DI
5
DO
6
Vcc
2
Vcc
GND
7
GND
1
NC
8
NC


GND2
ROUT
GOUT
BOUT
CVOUT
Vcc2
FO
YTRAP
YOUT
COUT
VREF
IREF
24
23
22
21
20
19
18
17
16
15
14
13
R-OUT
G-OUT
B-OUT
Video Out
Y/C Mix
75 Driver
75 Driver
Regurator
Delay
Clamp
SYNC ADD
Matrix
BPF
B - Y Modulator
B - Y Modulator
Clamp
Clamp
Clamp
SIN-Pulse
Phase Shifter
Pulse Gen
1
2
3
4
5
6
7
8
9
10
11
12
GND1
RIN
GIN
BIN
NC
SCIN
NPIN
BFOUT
YCLPC
SYNCIN
NC
Vcc1


DQ0 – DQ15
29 – 37 38 – 45
Vcc 37
Vss 46
Vss 27
RY/BY Buffer
RY/BY
Erase
I/O Buffer
WE 11
BYTE 47
RESET 12
Command Register
Write
Chip Enable Output Enable Control
STB
Data Latch
CE 26
OE 28
STB
Y Decoder
Y Gate
16,777,216 Cell Matrix
Addess Latch
X Decoder
Low Vcc DET
Write/Erase Pulse Timer
A0 – A19
1
9
16
25
48
45
A-1